FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2053.—Vol. XLIV.

LONDON, SATURDAY, DECEMBER 26, 1874.

SUPPLEMENT. SPRICE SIXPENCE.

MR. JAMES H. CROFTS, STOCK AND SHARE BROKER,
No. 1, FINCH LANE, CORNHILL, LONDON, E.C.
(SUCESSOR TO JAMES CROFTS).
Established 1842.
BUSINESS transacted in every description of British and Foreign Stocksand
Shares, and in all Colliery and Iron Shares.
SPECIAL BUSINESS in shares not having a general market value.

SPECIAL DEALINGS in the following. Buyers or Sellers will find it advantage Prince of Wales. Positive Assurance.

us to communicate:— Bampfylde. Bilson and Crump. Briton Medical. Cardiff and Swansea. Chapel House. Clee Hill. Flagstaff. Flagstaff. Glaisdale Quarry. Grogwinion.

communicate:
pfylde.
In and Crump.
In Medical.
In Mant y-Glo (Pref.).
In Medical.
In Mercastle Chemical.
Newport Abercarn.
New Sharlston.
Palmer's Shipbuilding (£35 pald).
Postruthal.
Party Mountain.

Business transacted in all descriptions of Miscrell. Annous shared.

Business transacted in all descriptions of Miscrell. Annous shared.

Business transacted in all descriptions of Miscrell. Annous shared.

Positive Assirable
Peevor.
Silkstone Fall.
Sweetland Oreek.
Thorp's Gawber.
Tyllwyd.
Welsh Freehold.
West Tankerville.

Bankers: City Bank, London; South Cornwall Bank, St. Austell.

R. W. H. BUMPUS, STOCK AND SHARE BROKER,
44, THREADNEEDLE STREET, LONDON, E.C.
Transacts business in MINING and COLLIERY Shares of every description.
English and Foreign Stocks, Colonial Government Bonds, Railways, Banks, and
Miscelaneous Shares, and all Securities dealt in on the London Stock Exchange,
for INVESTMENT or SPECULATION. Business negociated in Umarketable
Stocks and Shares. Speculative Accounts opened for the Fortnightly Settlement.

A Stock and Share: List forwarded to bonz fide Investors free on application.
Bankers: The National Provincial Bank of England, E.C.

Bankers: The National Provincial Bank of England, E.O.

W. H. B. has SPECIAL BUSINESS in the undermentioned:
70 Bampfylde, 2½.
15 Bettwa Liantwit Col.
20 Birdaeye, £2 11s. 3d.
25 Edge, £2 11s. 3d.
20 Great Laxey, £105,.
20 Hingston Down, 24s. 6
25 Javail.
25 Layewell, £2 13s. 9d.
25 Layewell, £2 13s. 9d.
25 Cedar Creek, 31s. 6d.
20 Cardiff and Swansea.
25 Dolocath, £50½.
25 Devon Con., £2 6s. 3d.
26 East Lovell, £34,.
26 East Cardon, 19s. 6d.
27 Pennerley, 29s.
28 Flagstaff, £1 18s. 6d.
28 Flagstaff, £1 18s. 6d.
28 Pennerley, 29s.
29 Deventrait, £5.
20 Parys Mountain, 9s. 6d.
20 Cardiff and Swansea.
30 Boerhardt, £5.
30 Boerhardt, £5.
40 Parys Mountain, 9s. 6d.
50 Flagstaff, £1 18s. 6d.
50 Parys Mountain, 9s. 6d.
50 West Maria, 7s.
50 Wheal Kitty, £5½.

MR. E. J. BARTLETT, STOCK AND SHARE DEALER,
No. 30, GREAT ST. HELEN'S, LONDON, E.C., has SPECIAL BUSIOLD TREBURGETT.
PARYS MOUNTAIN.
PRINCE PATRICK.

SOUTH CONDURROW. OLD TALARGOCH.

BOUTH TOLCARNE. CARN BREA SHARES.

JOHN RISLEY (SWORN), STOCK AND SHARE BROKER, 17, CORNHILL, LONDON.

Turkish Six Per Cents. of 1854, 1858, 1862, 1865, 1871, and 1873 specially recommended; Wheal Grenville and Treleigh Wood, also Wheal Peevor and Crebo shares.

Business transacted at the following rates of commission:—Foreign Stocks, ½ per cent.; and Mining Shares of £4 each and upwards, 1½ per cent.; under £4, ls. per share.

RERDINAND R. KIRK, STOCK BROKER, 5, BIRCHIN LANE, E.C.
Consols, Foreign Bonds, Railways, and every security quoted on 'Change bought and sold. Fortinghtly accounts opened.
Bankers: London and Westminster, and City Bank.

BPECIAL BUSINESS in the following:—
Bagnall John.
Bilson and Crump.
Birdseye.
Cardiff and Swansea.
Cedar Creek.
Central Swedish.
Central Swedish.
Gold Run.

Cedar Creek.
Central Swedish.
Chapel House.
Chillington Iron.
Clee Hill.
Darlington Iron. Denton Colliery.
Devon Consol

Gold Run. Hopkins Gilkes. Javali. Nant-y-Glo. Newport Abercarn. Original Hartlepool. Pennerley.
Palmer's Shipbuilding.
Pelsall Coal.
New Sharlstone.
Sheepbridge
Silkstone Fall. Silkstone Fall. Silkstone Dodworth. Sweetland. Thorp's Gawber. Tyllwyd. Welsh Freehold. Whitehaven Iron.

R. WILL LIAM WAR AND LITTLEWOOD),
CROSBY HOUSE, 95, BISHOPSGATE STREET WITHIN, E.C.,
DEALS in ALL KINDS of STOCKS and SHARES, for cash or the account WARD

R. HENRY MANSELL, STOCK AND SHARE DEALER, 14, GREAT WINCHESTER STREET, LONDON, E.C.

M. THOMAS THOMPSON, JUN., 1, PALMERSTON BUILDINGS, BISHOPSGATE STREET, LONDON, E.C.
Some valuable hints as to the purchase of mining shares will be found in Mr. Thompson's "Investment Circular" for December now ready, post free, price 6d.

MR. W. TREGELLAS, 122, BISHOPSGATE STREET Deals in all descriptions of Stocks and Shares at close market prices.

MESSRS. SMITH AND CO., 126, BISHOPSGATE STREET
WITHIN, LONDON, E.C.
Messrs. Smith and Co. Transacts Business in every species of Stocks and Shares.
SPECIAL BUSINESS in Chapel House, Blaen Cwmbach, Alltami, and Clee
Hill Collieries; Malpas, Sweetland, and Birdseye Creek; Great Laxey,
Tyllwyd, and Grogwinion and Mellindur Valley Shares.
Messrs. Smith and Co.'s "Investment Circular" may be had on application.

MESSES. ENDEAN AND CO., STOCK AND SHARE DEALERS, 85, GRACECHURCH STREET, LONDON, E.C. Government and every negociable Stocks dealt in for cash or account. Order and telegrams punctually attended to.

We advise immediate application and purchase of the BAMPFYLDE and LLAN-BWST shares. A rise in price is inevitable.

MESSES. W. DUNN AND CO., STOCK AND SHARE DEALERS, 3 AND 4, GREAT WINCHESTER STREET BUILDINGS, LONDON, E.C. Orders received and commissions executed.

Bankers: National Provincial Bank of England. MR. GEORGE BUDGE, STOCK AND SHARE DEALER, No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.O.

M.R. WM MARLBOROUGH, STOCK AND SHAREDEALER, 29, BISHOPSGATE STREET WITHIN, LONDON, E.C. (Established 18 years.)

R. E. CHARTERS, 36, NORTHUMBERLAND STREET.
CHARING CROSS, LONDON, can do BUSINESS in the FOLLOWING SHARES, free of commission:
30 Almada, 16s. 6d.
50 Gunnislake, £2½.
20 Marke Valley, £1½.
50 Mid-Moonta, £9.
50 Mid-Moonta, £9.
50 Pannerley, £1½.
50 Pannerley, £1½.
50 Gawton, 16s. 6d.
50 Providence, £5.
10 Frovidence, £5.
10 Wheal Mitty, £4½.
50 Gawton, 16s. 6d.
50 Providence, £5.
50 Wheal Tayy, £3.

mission:— sa da da mission:— so Gunnislake, £2¼.
20 Marke Valley, £1½.
50 Mid-Moonta, £0.
50 Plynlimmon, 2s. 6d.
30 Pennerley, £1¼.
50 Fedn-an-dres, £7¼.
10 Providence, £5.

50 Rica, 7s.
20 Roman Gravels, £11¾
80 Rossa Grande, 1s.
70 West Maria, 7s.
10 West Basset, £7.
10 Wheal Kitty, £4¾
10 Wheal Uny, £3.

P. WATSON, STOCK AND SHARE DEALER, 79, OLD BROAD STREET, LONDON.

Bankers: The Alliance Bank (Limited); and Union Bank of London.

MR. T. E. W. THOMAS, SWORN SHARE BROKER, 3, GREAT WINCHESTER STREET BUILDINGS, E.C. Established 1857.

This being Christmas week, the usual Share List is omitted, but will appear

MESSRS, PENNINGTON AND CO., 3, ROYAL EXCHANGE
BUILDINGS, E.C., STOCK AND SHARE DEALERS, have BUSI
NESS in the undermentioned:—
Birdseye.
Tecoma.
Emma. 1:— Tecoma. West Wheal Gorland. Gold Run. Sweetland Oreek Malpaso. Buller. Rica. West Esgair Lle.

Flagstaff. Kitty (St. Agnes). Cedar Creek. Parties wishing to purchase or sell in the foregoing are requested to make early application. PENNINGTON AND CO., SWORN BROKERS.

MESSRS. PENNINGTON AND CO.'S "MONTHLY RECORD OF INVESTMENTS," published on the first Thursday in each month, contains an exhaustive Review of the British and Foreign Stock and Share and Money Markets, &c., with an enumeration of safe investments, paying from 15 to 20 per cent. Price 6d, per copy, or 5s. annually.

PENNINGTON and Co., 3, Royal Exchange-buildings, E.C.

JOHN MOSS AND CO., STOCK AND SHARE DEALERS, 224 AND 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C., transact Business for cash or account on all descriptions of Stocks and

hares.

J. M. and Co., can recommend for investment shares that during the early art of 1875 are likely to double their present price.

Fortnightly accounts opened on advantageous terms.

G. E. SIMPSON, STOCK AND SHARE DEALER, 6, GREAT WINCHESTER STREET BUILDINGS, LONDON, E.C.

MESSRS. HARVEY, JORDAN, AND CO., MINING AGENTS, ACCOUNTANTS, AUDITORS, MANAGERS OF PUBLIC COMPANIES, &c.

OFFICES, -30, MOORGATE STREET, LONDON, E.C. LONDON OFFICES of the LLANTRISSANT TIN PLATE WORKS.

MESSRS. HARVEY, JORDAN, AND CO. undertake personally the INSPECTION of MINERAL PROPERTIES, the MANAGEMENT of COMPANIES entirely, or partially by keeping the accounts at their offices, or by period to the properties; AUDITING of ACCOUNTS, ARBITRATIONS, &c.

MESSRS. HARVEY, JORDAN, AND CO.

HAVE OPENED, at their Offices, a REGISTER of MINERAL and
OTHER PROPERTIES, both ENGLISH and FOREIGN. Particulars inserted
therein for vendors, and the same, with plans and reports, kept for reference to,
by investors.

HARLAND AND CO., STOCK AND SHARE DEALERS,
285 and 286, GRESHAM HOUSE, LONDON, E.C.,
Transact business in Kingston Valley, Chapel House, Alltami, Cardiff and Swansea, Welsh Freehold, United Bituminous, and Clee Hill Collieries—Tankerville,
West Tankerville, Lovell, Denbighshire, Tyllwyd, Roman Gravels, Birdseye
Creek, Sweetland Creek, and every description of Stocks and Shares.
Circular and Dally Price-List gratis.
Bankers: London and County Bank.

M. R. JAMES HUME, STOCK AND SHARE BROKER, 1, 87. SWITHIN'S LANE, LOMBARD STREET, LONDON, E.C. From 10 to 20 per cent. is obtainable from Government Bonds—quite safe—sever-strongly recommended.

SPECIAL BUSINESS in Richmond shares, for eash or account. Business in all stocks and shares transacted by post or telegram, for eash or ac

MESSRS. W. J. TALLENTIRE AND CO.,

STOCK AND SHARE BROKERS.

20, CHANGE ALLEY, CORNHILL, LONDON, E.C., transact business in

Stock Exchange Securities and Mining Shares of every description.

A Selected List of Safe Investments forwarded to intending investors post free
upon application. Fourteen years' experience.

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Bankers: London and Westminster, Lothbury.

MESSRS. J. TAYLOR AND CO., 86, LONDON WALL, E.C. and MINING EXCHANGE, SOUTH KING STREET, MANCHESTER, MINING ENGINEERS AND INSPECTORS.

Business done in all descriptions of Stocks and Shares. FOR SALE, 80 Aberdaunant shares, at 12s. 6d. per share.

> IMPORTANT. TO MINE AGENTS AND MINING ENGINEERS.

MESSRS. BERKELEY AND CO, have INVENTED a NEW DESCRIPTION of STENCIL PLATE for LETTERING PLANS, which will enable any person to produce in an instant all kinds of Lettering, North Points, Trees, Borders, Scales, &c., upon Drawings, equal to the finest hand-work. These plates not only supersede all others ever introduced, but are supplied at less than one-third the cost. Illustrated Sheets of New Designs forwarded gratis on application to—

H. R. BERKELEY AND CO.,

WELLINGTON HOUSE, BRENTFORD ROAD, CHISWICK, LONDON.

T. PARKYN, ST. AUSTELL, CORNWALL, MINING HUNDRED ACRES of COAL, IRONSTONE, and FIRE-CLAY, &c., in the best Somersetshire coal district. Would be glad to treat with any respectable parties with a view to float it. All particulars can be known by applying as above. New Fower should be secured at once.—Thirty years practical experience. Bankers: South Cornwall Bank, St. Austell, Cornwall.

Bankers: South Cornwall Bank, St. Auselp , Cornwall.

MR. JAMES STOCKER, 2, CROWN COURT, THREADNEEDLE STREET.

Railway, Bank, Foreign Bonds, and all other Stocks and Shares for Investment or Speculation.

SPECIAL BUSINESS in the following:—
50 Bampfylde, 49s. 16 Hudson's Bay. 35 Hingston, 23s. 9d. 100 Rices, 7s. 3d. 35 Hongston, 23s. 9d. 100 Rotal Charles, 400 Javall, 4s. 3d. 90 London and California. 100 Evential Consultations of St. Consultant, 29s. 30 Sweetland, 55s. 90 Sweetland, 55s. 100 London and California. 100 London and California. 100 Evential Consultant, 1s. 6d. 100 East Grange. 15s. 100 London and California. 100 Event Grange. 15s. 100 Event Grange. 15s. 100 London and California. 100 Event Grange. 15s. 100 Event Gran

35 Bog.
50 Cedar Creek, 39s.
60 Chontales.
40 Clee Hill Col., 8s. 3d.
70 Chapel House, £3 18s.
25 Cardiff & Swan, £3 189
60 Court Grange.
75 Don Pedro, 8s.
30 Devon Gt. Con., 47s. 6
50 Emma, 23s. 9d.
20 Eberhardt, £5.
70 Exchequer.
20 East Lovell, £8½.
100 East Grenville, 12s.
55 Flagstaff, 39s.
60 Frontino, 8s. 3d.
110 Gold Run, 10s. 6d.
80 Glaisdale.
80 Grogwinion.
50 Gawton, 8s. 9d.
15 Great Laxey.

M R. CHARLES THOMAS, MINING AGENT, STOCK AND SHARE DEALER, S, GREAT ST. HELEN'S, LONDON, E.C.

MESSES. A. W. THOMAS AND CO.,
10, COLEMAN STREET, E.C.,
MINING AGENTS, AND STOCK AND SHARE DEALERS. "Investments and Speculations, 1874."-Post free upon application.

PRINCE PATRICK, AND SOUTH PRINCE PATRICK.—Information of these mines, which are comparatively unknown to the public, may be obtained upon application. Shares bought and sold at market prices.

M R. TIMOTHY HUGHES,

The Registered Office of the PRINCE PATRICK, GROSVENOR, WEST BRYN CELYN, and GREAT EAST FOXDALE LEAD MINING COMPANIES (LIMITED). Full information respecting these Mines forwarded on application.

RELIABLE INFORMATION given respecting Mines in the Isle of Man, Flint-shire, and the neighbouring districts.

NICHOLAS M. MAXWELL, LONDON, ENGLAND, Ex-Superintendent Flagstaff Mine, Utah.

WM. C. HENDRIE, San Francisco, California MAXWELL, HENDRIE, AND CO., MINING AND MECHANICAL ENGINEERS, S, QUEEN'S BUILDINGS, QUEEN VICTORIA STREET, LONDON, E.C.; SAN FRANCISCO, CALIFORNIA, U.S.A.

DALF LAKE CITY, UTAH. DENVER, COLORADO.

Are prepared to inspect, survey, and value Mines, undertake their management, furnish specifications, drawings, and estimates for all classes of Mining Machinery, and for all descriptions of work in connection with Mining.

Cupola and Reverberatory Furnaces, Crushing Mills, &c. Reports carefully made on Mines. SALT LAKE CITY, UTAH. DENVER, COLORADO.

THOMAS EDGLEY AND CO.

AGENTS for the PURCHASE and SALE of
COLLIERIES, AND OTHER MINERAL PROPERTIES, &c.,
MANSION HOUSE CHAMBERS,

12, QUEEN VICTORIA STREET, LONDON, E.C.

GROSVENOR, ENTWISLE. AND CO.
STOCK AND SHARE BROKERS
88, PORTLAND STREET, MANCHESTER.

R. R. PERCY ROBERTS, FINANCIAL AGENT, 60, ENGLISH STREET, CARLISLE.

R. J. S. M. E. R. R. ASSAYER AND ANALYTICAL CHEMIST, SWANSEA.

APTAIN ABSALOM FRANCIS, MINING AGENT, ENGINEER, AND SURVEYOR. GOGINAN, ABERYSTWITH,

CAPT. ANTHONY (formerly Manager of the Providence Mines), HAVING HAD the PROVIDENCE MINES INSPECTED, will forward copy of Report on receipt of One Guinea. Lelant, Hayle, Cornwall.

OHN PETHERICK, M.E. (from Camborne, Cornwall), having had nearly Ten Years' experience in the different Mining Districts of Mexico, OFFERS his SERVICES to the mining world to SURVEY and FAITH-FULLY REPORT on MINING PROPERTY in any part of this REPUBLIC. Pachuca, Mexico, June 13, 1874.

L O N I A L
Subscribed Capital
Paid-up Capital B A N K . -

THE RIO TINTO COMPANY

Notice is hereby given, that the SHARE REGISTERS of this company will be BALANCED on the evening of Thursday, the 24th instant, for the preparation of the INTEREST WARRANTS, which will be posted to the proprietors on the 31st inst., for payment on the 1st January.

The INTEREST will amount to FIVE SHILLINGS AND TWOPENCE PER SHARE.

The books will not be closed on this occasion.

By Order,

R. J. FENNESSY, Secretary.

Offices of the company: 17, Cornhill, London, E.C.,

18th December, 1874.

MALPASO GOLD WASHING COMPANY
(LIMITED).

Notice is hereby given, that the ORDINARY GENERAL MEETING of the
Malpaso Gold Washing Company (Limited) will be HELD at the offices of the company, No. 1, Winchester House, Old Broad-street, London, E.C., on TUESDAY,
the 29th December, 1874, at One o'clock.

The Transfer-books will be closed from the 28th instant to the 18th proximo.
By order,
SYDNEY A. COBBETT, Secretary.
1, Winchester House, Old Broad-street, London, E.C., 15th December, 1874.

RICA GOLD WASHING COMPANY Notice is hereby given, that the ORDINARY GENERAL MEETING of the Rica Gold Washing Company (Limited) will be HELD at the offices of the company, No. 1, Winchester House, Old Broad-street, London, E.C., on TUESDAY, the 29th December, 1874, at Two o'clock.

The Transfer-books will be closed from the 28th instant to the 18th proxime.

By Order, SYDNEY A. COBBETT, Secretary.

1, Winchester House. Old Broad-street, London, E.C., 18th December, 1874.

L A N A R M O N M I N E —
the Prospects of this Mine, will SEND a COPY on receipt of £1 is.
Address, "Llanarmon," MINING JOHRAL Office, 26, Fleet street, E.O.

L A N A R M O N L E A D M I
ONE HUNDRED SHARES TO BE SOLD AT ONCE.
Address, "S. T. P.," MINING JOURNAL Office, 25, Fleet-street, E.C.

950 BLAKE'S PATENT ORE-CRUSHERS talogues, apply to-

Mr. H. R. MARSDEN, SOHO FOUNDRY, LEEDS.
Only maker in the United Kingdom.

MR JOHN CARTER, MINE SHARE DEALER, CAMBORNE, CORNWALL, transacts business in every description of

THE NASCENT COPPER PROCESS.

The PROPRIETORS of this PATENT METHOD of TREATING LOW-CLASS SILVER and COPPER ORES are PREPARED to GRANT LICENSES for its USE at LOW ROYALTIES.

There is hardly a Mixed Metal mine in the world but may be made to pay dividends under this system.

All communications respecting the above should be addressed to-

MESSRS. EMMENS BROTHERS AND CO., 8, OLD JEWRY, LONDON, E.C.

Meetings of Bublic Companies.

ST. JOHN DEL REY MINING COMPANY.

A general meeting of shareholders was held at the London Tavern

A general meeting of shareholders was held at the London Tavern, on Wednesday,—Mr. JNO. HOCKIN (managing director) in the chair. The report (which appeared in last week's Journal) was taken as read.

The CHAIRMAN said: Before entering on the business of the meeting, I may state that since the publication of the directors' report, advices have been received from Morro Velho, both by letter and by telegram, reporting the produce and profit up to a much later date than is given in the report. The report, you observe, gives the produce for September at 25,440 oits.; for October it was 28,724 oits.; for November (13,300L) it was 33,500 oits. The profit for September was 4370L; for October, 6189L; and though the official report has not been received, it cannot, from the produce, be less than 7500L (which has since been ascertained by telegram to amount to 7900L), showing a most gratifying progressive monthly increase both in produce and was 10 10; 107 October, 618%; and though the other report has not been received, it cannot, from the produce, be less than 7500% (which has since been ascertained by telegram to amount to 7900%), showing a most gratifying progressive monthly increase both in produce and profit. We learn, too, from these advices that the dry weather from which we have suffered during the half year referred to in the report had been succeeded by ample rains. At our last meeting, gentlemen, we promised that we would recommend the payment of a dividend as soon as the profits earned placed us in a position do so. We meet you to-day to fulfil that promise, and though the dividend is not quite in the old style, we hope it will be considered a tolerably handsome first instalment, particularly as we are enabled, after carrying the usual 10 per cent. on the dividend to the reserve fund, to carry forward the respectable balance of 5619%, to the next half-year. The dimensions of the mine as already opened out—or, in other words, the working space—is very small, compared with the space we had to work on when the last dividends were paid, but it is pleasing to be able to show, as we do on the 7th page of the report, that that space is being steadily enlarged month by month, resulting as already shown in increased produce and profits. The space opened out during the half year only averaged a length of some 114 ft., with an average width of some 25 ft., whilst in 1867 the length of the lode then being worked on was 700 ft., with an average width of 36 ft. It should be borne in mind, too, that of the quantity of ore quarried during the six months fully one-half was the result of sinking and driving, modes of extraction which are tedious and expensive, as compared with stoping, which was almost the sole mode of extraction in 1867. Notwithstanding these very palpable drawbacks, the produce of gold for the six months is only about 2 per cent. less than half the produce for the corresponding period of 1867 was 57½ per cent. of its value, whilst the expenses for management are necessarily as heavy now as they will be when we are able to treat twice the quantity of ore we now do. Another favourable circumstance contributing to the satisfactory results of the half-year's operations will be found on comparing the average yield of the whole of the mineral quarried during the half-year with the yield of former years. The highest recorded average yield of the whole quantities quarried (1862) was 5-927 oits. per ton, whilst you will see by the statement at page 5 of the report that during the current half-year it was 7-838 oits. per ton, and we have since been informed that the yield for October and November was much more favourable, being respectively 22 cits, and 24 oits, per whilst you will see by the statement at page 5 of the report that during the current half-year it was 7.38 oits, per ton, and we have since been informed that the yield for October and November was much more favourable, being respectively 9.2 oits, and 9.4 oits, per ton. It is true that in 1867 the yield of the ore stamped was brought up to 8.438 oits, per ton, and in 1866 to the unprecedented high yield of 10.305 oits, per ton, but this was brought about by the rejecting in 1867 36 per cent., and in 1866 43 per cent. of the mineral quarried, but on which the heavy expense of quarrying, bringing to the surface, and there turning over to reject, the worthless had been incurred. During the first three months of the half-year 84 stamp-heads only were kept working daily. During the last three months 12 more were brought into use, and this month it is intended to add nine other heads, making a total of 105 heads, after which there will be another 30 to complete the full number of former years. Up to the date of the last advices the lode continued to open out most satisfactorily. The mine captain in his report for October says—"The lode throughout the mine continues to be all that can be desired." Every attention is being paid to timbering and securing at all points where required. As regards finances, the figures in the report speak for themselves. Besides being in funds to pay the dividend, to pay off the last of the debentures, amounting to 5900l., and all drafts due before the arrival of the next gold, we have investments in first-class Securities amounting to 16,000l, to which we now add 2520l.

Mr. J. Schopield (Stock Exchange) seconded the proposition. The statement of the Chairman was highly satisfactory. It was unprecedented in the history of mining. Already everything had been fully realised—in fact, the results already obtained had exceeded their most sanguine anticipations. He was glad to hear Mr. Hockin say that the profit for November amounted to 7500l. He found that in August, 1867—before the fire—45,5

The CHAIRMAN said the HAIRMAN said there were means of doing so, and the matter was under ation, and when determined upon the charge would be included in the cost, as it could only be done gradually. The outlay could not exceed month.

consideration, and when determined upon the charge would be included in the monthly cost, as it could only be done gradually. The outlay could not exceed 5000, per month.

Mr. SPENCER HERAPATH said that the yield of the ore for the six monthly priot to the fire averaged about 7 vits. per ton and the monthly profit averaged 5500. They were now dealing with ore yielding 9 vits.; therefore, it could be only a question of quantity and capacity to produce proportionably increased profits, the produce of the ore being of unprecedented value. They were entirely indebted to their able staff on the other sides as well as to Mr. Hockin and the board at home, for bringing about the present results. Had the shareholders been governed by their own feelings he doubted whether they would not have given up in despair—(no, no)—but they were now landed in a condition of prosperity, with prospects brighter than anything hitherto known in the history of mining. Their perseverance had been richly rewarded, and great credit was especially due to Mr. Hockin, whose practical knowledge had encouraged them to go on, which had opened out before them the prospects of a brighter future than known at any former period. The past had proved the incalculable value of a substantial reserve fund, and he hoped the shareholders would support the board fully in setting aside sufficient for a reserve fund to meet any contingency that might cocur. They were now looking forward to a steady development of the property, and to extend operations upon the lode, the yielding capacity of which was only limited by the mechanical contrivances brought to bear.

Mr. T. JONES asked if samples of the ore were occasionally sent home for the purpuse of testing its quality?

The Diathman said they had persons on the mine perfectly qualified to analyse the stone, and they did not want any help in this country.

Mr. T. JONES asked if samples of the ore were occasionally sent nome for the purpuse of testing its quality?

The CHAIRMAN said they had persons on the mine perfectly qualified to analyse the stone, and they did not want any help in this country.

Mr. T. JONES said they had all confidence in their officers, but it could do harm to keep a check upon them.

Mr. TENDRON said if the hon, proprietor would call at the office he would see there was no scope whatever for dishonesty. The lode was extraordinarily regular in its yield, but the gold was invisible, and it was only by working it upon a gigantio scale that they were able to realise profits; there was not the slightest reason for exercising the check suggested—there was no possibility of collusion; therefore nothing could occur to prevent the shareholders receiving the full amount.

Mr. T. JONES said he was much obliged to the last speaker for what he had told him, although he had told him nothing that he was not perfectly aware of before;

nor had it in the slightest degree altered his opinion of the desirability of ascertaining from time to time the average yield of gold in the stone.

The CHARMAN said this was one of the points that 'the directors kept most anxiously before their minds, and he was perfectly convinced that nothing would be gained by having samples of the stone sent over to this country. The samples were taken very carefully from the sand or pulverised stone, and not from the stone itself.

ione itself.

Mr. SCHOFIELD said, with all due deference to the board, he would suggest that
Mr. SCHOFIELD said, with all due deference to the board, he would suggest that
preparations be made for obtaining an additional supply of water, because he was
attisfied that in six months there would be more ore to crush than ever before.

The CHAIRMAN said every necessary preliminary had been adopted, and surveys
nade, but no decision had as yet been arrived at.

The motion adopting the report and accounts was then put and carried unani-

The motion adopting the report and accounts was then put and carried unammously.

A dividend of 10 per cent, free of income tax, was declared.

Mr. SPENCEE HERAPATH proposed that the best thanks of the shareholders be
given to the Chairman for the business-like way in which he had presided at the
meeting, and also for the statement he had submitted of the company's affairs.
His experience as a practical gentleman acquainted with mining was unsurpassed.
He proposed that the thanks of the shareholders be given to him and his colleagues.
The proposition having been duly seconded was put and carried unanimously.
The CHAIRMAN having thanked the meeting on behalf of his colleagues and himself for this additional mark of condience, he need hardly say that it afforded him
considerable pleasure to find that the mine had been placed in its present satisfactory position, and he only hoped it would continue so.
Upon the proposition of Mr. S. HERAPATH, seconded by Mr. SCHOFIELD, a
vote of thanks was passed to Mr. Gordon and the staff at the mines.
The CHAIRMAN having stated that the vote should be forwarded by the next
mail, added that he hoped that at the next meeting Mr. Gordon himself would be
present. (Hear, hear.)—The meeting then separated.

HOLCOMBE VALLEY MINING COMPANY,

A general meeting of shareholders was held at the offices, Austinfriars, on Dec. 19,—Mr. J. IRVING COURTENAY in the chair.
Mr. W. J. LAVINGTON (the secretary) read the notice convening

Mr. W. J. LAVINGTON (the secretary) read the notice convening the meeting.

The CHAIRMAN said that since the last meeting he had visited Holcombe Valley, and would now tell the shareholders briefly the condition in which he found the mines. He arrived safely there on Sept. 3, after a very tedious journey from the neighbourhood of San Francisco of seven days duration. Holcombe Valley, some 120 miles inland, was about 8000 ft. above the level of the sea. He was not able to make the inspection he wished, from the causes he would relate. There was a plan of the surface workings of the mine prepared by Mr. McCaskill, which would be found of considerable assistance in understanding the respective workings. He found that No. 2 incline was under water, but five days sufficed to pump it clear. In No. 1 incline, which was 106 ft. deep, he was only able to get down 60 ft., owing to the badness of the air. He was accompanied by Mr. Thomas, the superintendent of a neighbouring mine, and as well as it could be seen the ledge was some 5 ft. wide. They could not reach the bottom, because the air would not allow them to do so, but the average width of the ledge was reported to be about 3 ft., and the last eight days run of the mill was upon ore broken from this point. The ledge beyond our boundary was clearly traceable on the surface. They proceeded to No. 2 incline, which was 170 ft. deep, and at a point 50 ft. from surface, and at another point 120 ft. from surface, two levels had been driven. The 120 ft. level had been run a distance of 175 ft. in ore, and it intersected the air-shaft at a distance of 107 ft. from the incline. The ledge at a point beyond the air-shaft that a distance of 107 ft. from the incline. The ledge at a point beyond the air-shaft that a distance of 107 ft. from the incline. The ledge at a point beyond the air-shaft that a distance of 107 ft. from the incline. traceable on the surface. They proceeded to No. 2 incline, which was 170 ft. deep, and at a point 50 ft. from surface, and at another point 120 ft. from surface, two levels had been driven. The 120 ft. level had been run a distance of 17 ft. from the incline. The ledge at a point beyond the air-shaft was divided into stringers, which he thought was owing to its being under a ravine. He was accompanied by a shareholder in the company, who he regretted was not present to-day; they took specimens from various places along this level, which were now upon the table; they only took such specimens as showed visible gold, and as would be seen were extremely rich. The other level, 50 ft. deep, had yielded considerable quantities of ore. The map showed the ground stoped away on the Mammoth ledge, and that a great deal of stoping had been done by the former proprietors. They then visited the main shaft, which was 64 ft. in depth; he agreed with Mr. Haley, Mr. Bowe, and others that the correct and proper mode of working the mine would be through this shaft, and he could not but express his regret that the sinking of this shaft was discontinued. Mr. Haley had stopped it on account of the poorness of the ledge found in the incline when down some 130 or 140 ft. The ledges pitched towards the shaft; he could not inspect the San Bernandino ledge, because since Mr. McLean and Mr. Bowe inspected it the timbers had rotted and the shaft fallen in. Nearly all the work done by the present company was upon the Mammoth ledge, although something had been done upon Pine Tree ledge, but the bulk of the ore had been extracted from the Mammoth. He mill was not at work when he arrived, although it had very lately been running upon some rock, which came from the mines of a neighbouring company, called the Gold Mountain Company. The mill was fitted with five stamps, for the purpose only of testing the rock; its situation was bad, and it had quite failed to do the work in the manner he could have wished. There was no fall, and no appliances wer in machinery that would effectually save the sulphurets, there was no fall. He had had occasion to visit several n in machinery that would effectually save the sulphurets, because there was no fall. He had had occasion to visit several mills during his stay in California, and he had found that there were many systems at work, some one, or modification of some one, might be adopted to enable them to make some estimate with regard to the percentage of the sulphurets. He desired Mr. Haley to forward some of the sulphurets to San Francisco; of course they were not cleaned or concentrated. He also desired that other samples should be forwarded to London. The latter gave over 7 ozs. of gold to the ton, but they had been informed that samples sent to San Francisco gave only 1½ oz. of gold to the ton. The difference was as great as to be quite inexplicable, and the board had taken steps to have the samples re-assayed, with the view if possible of clearing up the extraordinary discrepancy. Another portion of the company's property was the gravel claims; of this there were 140 acres, situated, unfortunately, in a basin, so as to render it unsuitable for hydraulicing. There was no sufficient outlet, and could not be provided unless at a very great expense. It was not such an auriferous deposit as he had had occasion to speak of in the northern part of the State, the formation was of a different geological age to that of the old river deposits. The depth of the deposit had not yet been ascertained, because the valley acted as the natural drainage for the country around, and there had not yet been erected machinery of a sufficient power to sink to the bed rock. Some people thought it was 50 or 60 ft. deep, while others, looking at the surrounding country, considered it to be a depth of 200 ft.; the whole surface of the valley mas being worked over by different people. He thought the proper course for them to adopt would be to test the valle of this deposit by boring, and then having fixed upon a suitable locality sink the shaft, pump the water, raise the gravel, and wash it with the water so pumped. It was thought that a sum of \$10,000

mill the mine should be much more developed. The main shaft should be sunk at least 100 feet deeper, and cross-outs driven to the Mammoth ledge to No. 1 incline, that would be a distance of about 120 ft.; drifts should be run both ways on the ledge (say) for 100 ft. each. He thought that was the least work that should be done before they put up a mill. Those workings would test the mine to some extent, though, of course, still only at a shallow depth. At the main shaft hoisting machinery must be erected; according to an estimate, to complete these mining operations it would cost at least \$10,000, and to pay the balance due upon the mill, freight, and other charges would require \$12,000. He arranged that the company should have the mill by paying the sum of \$2000 in addition to what had been already paid, therefore his estimate was that the sum of \$30,000 was required; several months would be occupied in doing the work. He found on his arrival that there was a heavy debt on the mines. Mr. Haley, although stopping the milh, and gone on developing the mine, and had accumulated a debt of \$6568; that had all been paid off, according to the latest accounts included in the balance sheet. It would appear that they owed Mr. Haley 60,, and there were some salaries still unpaid, but he believed there were no further debts up to the date of these accounts. The property up to that time was practically free of debt. He had to consider what course should be adopted, and after mature consideration resolved to close down and stop all expenses as far as practicable; he arranged with Mr. Haley, who consented to stay in charge of the property, that they should employ a watchman if necessary to protect it, as they did not intend doing any work at the mines, so that there was no necessity to retain any staff. He saw that the milh and been running, but owing to an unfortunate occurrence it was then stopped. He had further heard that it had since been put to work, and 510, already work at the milh and been running, but owing to an unf

Chairman.

Mr. Bowe seconded the resolution, which was put and carried unanimously.

The Cahirman, having acknowledged the vote, stated that it was clearly the duty of some members of the direction of English companies working mines in America to visit the property at least once every year, and not leave it entirely in the hands of superintendents.

RUBY CONSOLIDATED MINING COMPANY.

The annual general meeting of shareholders in this company was held on Wednesday, at the London Tavern,

Mr. W. A. Malcolm in the chair.

Mr. M. Aikman (the secretary) having read the notice convening the meeting, read the minutes of the last meeting, which were confirmed. The report of the directors and the accounts were taken

firmed. The report of the directors and the accounts were taken as read.

The CHAIRMAN said that as the shareholders had been good enough to take the report and accounts as read, it became his duty to make a very few remarks upon them. But before proceeding to make these few remarks he wished to call their attention in the first place to a printer's error in one of the items of the accounts. The last item but one on the credit side of the balance-sheet was printed as 36364. 13s. 3d., instead of which the figures should have been 36164. 13s. 3d., instead of which the figures should have been 36164. 13s. 3d. This clerical error did not, however, affect the total, which was quite correct, but the mistake was not discovered until the reports had been printed. In moving the reception and adoption of the report and accounts he had but a very few remarks to make. The present board of directors had been constituted according to the desire of the shareholders, he believed. Since then it had been their endeavour to carry out the suggestions made by the committee of investigation in the report which they had all received, and which the shareholders had no doubt perused with great attention. They had endeavoured to consolidate the affairs of the company to the best of their ability, with what success it would be seen by the accounts. The money remaining due for unpaid calls at the last meeting had been called in to the utmost possible extent, and he had no doubt the greater part of them would be recouped to the company, for it was not right that anyone should escape the payment of calls. The accounts from Mr. Heynemann had not yet been received, but they would probably arrive during next month; and when these were reteived the directors would be able te ascertain what was the exact position of the company's affairs at the mine up to the latest date. They had also asked Mr. Heynemann to forward a detailed statement as to how the property of the company stands in every respect. The furnaces were leased, and they alone make a respect. The furnaces were teased, and to the company \$2000 a month, and produce an amount of specie second only to one other furnace in the State of Nevada. The funds which had been received for the liquidation of several matters in connection with the company here had been used solely to pay the absolute debts of the company in this country, and he would shortly be very happy to read a statement of the manner in which the money had been collected and expended up to the present day, if the shareholders were desirous of possessing that information. This statement had been drawn up because the directors had not thought that the accounts now presented to the shareholders reached down to so late a date as might be wished—they would, of course, like to have them to the present moment, but this could not be done. He thought the shareholders would approve of the way in which the directors had laid out the money. They had taken steps to ascertain the exact position of the company. He had himself a personal friend in California, a gentleman of the highest respectability, and one upon whose words reliance could be placed. This gentleman belonged to one of the first firms in San Francisco. He (the Chairman) had applied to him to supply a correct report on the position of the company's property, and he (the Chairman) thought the letter supplied by his friend gave as much information on this subject as it was possible for an outsider to ascertain. He would read this letter to the shareholders shortly. There was no doubt the company was in wantof money, and to carry on the affairs of the company the directors must have money. He hoped, therefore, that the shareholders would adopt the suggestion the directors had made to raise money on debenture bonds, and to subscribe liberally towards those bonds when created. The intention of the directors was to select the most suitable person they could find to proceed to America to ascertain everything connected with the mines and to furnish a full report on the matter. When the direct then read the letter referred to.) He thought the directors were right in concluding that this information was so far satisfactory, that they have a valuable property, and, coming from a disinter-ested person, upon whose word the most implicit confidence could be placed, he thought the letter should be received as most satisfacested person, upon whose word the most implicit confidence could be placed, he thought the letter should be received as most satisfactory; that was his own opinion, and he would leave the shareholders to form their own conclusions. With this letter before them the directors thought they had every right to ask the shareholders to subscribe for the debenture bonds, and a scheme had been very carefully prepared by the company's solicitor and the directors, a scheme which he had no hesitation in asking the shareholders to confirm. The only way to do any good with the company was to make "a long pull, a strong pull, and a pull altogether," for unless the money was subscribed nothing could be done for the property. There was one thing only which he wished to mention with regard to the accounts, that was the remarks made by Mr. Sully, the auditor, in regard to the accounts, which was as follows:—
"I have compared the accounts submitted to me with the books of the company, and find them to be correct. I note that the 2500 forfeited shares referred to In my last report have been now entirely written off by reducing the liability on capital account, on the one hand, and lessening the valuation of assets by the same sum, on the other hand. The only other items which require notice in this report are the accounts called Labour and Supply Accounts. In the last balance-sheet a portion of the amount under these heads was charged to Trade Account. The remaining portion was supposed to have been expended on the properties, and improved

their value by so much. In the present accounts the whole of the Labour and Supply Accounts are charged to Capital Account, increasing the assets by so much. As stated in my last report, I have no means of judging as to how far this appropriation is correct in principle."

Mr. Sully had told him in conversation that he simply had to make that as a personal remark, to explain that he had not himself the means of stating whether appropriation to the different accounts was right or wrong. He, however, thought that the accounts were made up in the customary and proper manner. He could not conclude his remarks without mentioning that the directors had met with the greatest consideration from Messrs. Sully and Girdlestone and the other people in this country to whom money was due A settlement had been made with Messrs. Sully and Girdlestone up to Oct. 31 on very favoursble terms indeed, and the other accounts were equally satisfactory in that respect. He would now propose the reception and adoption of the report of the directors, and the statement of accounts.

Colonel D'OYLY seconded the motion.

The CHAIRMAN then said that one of the shareholders had submitted an amendment, which would no doubt be quite as satisfactory to the body of the shareholders as to the directors, but he would suggest that it would be more convenient as a substantive resolution.

Mr. BERNARD (the shareholder who had forwarded the amendment) said he was quite willing that his amendment should be treated as a substantive resolution.

The CHAIRMAN then read a supplementary account, stating the amount of money in hand when the present directors took offee war 7s. 10d. Since that time they had collected in various ways 520t in cash and 100t, in bills in respect of calls paid up. A small amount was still to be received from one gentleman, another igentleman was obliged to pay in monthly instalments, and 35t. was to be received from a gentleman, another igentleman mow deceased, but his estate would, no doubt, pay that. The late directors had return

the percy case pand amones to exercise the company to pay its way on this side of the water for six or nine months, but nothing more, and he hoped, therefore, that the subscriptions would come in before that time, so that some proper person could be sent to America.

Mr. Bernard then moved—"That the shareholders, having full confidence in the directors, do hereby authorise them to raise on the best terms possible a sufficient sum of money to pay off any indebtedness, and for the further development of the company's properties." In doing so, he said he thought his resolution, if passed, would be more satisfactory than the resolution mentioned in the directors report, which stated that 25,000. should be raised on 6 per cent. per annum debenture bonds. They might have to pay a little more, which would necessitate the calling of another meeting to make the required alteration. His resolution added to the report which had been adopted would, he thought, leave the hands of the directors untramelled, and they might then be able to get the company out of the mud. He thought that trustees should be appointed for the debenture holders, for unless this was done he would not subscribe, and that the money should be put aside for getting back their mines. Mr. Heynemann was doubt, entitled to his money, and the company to the mines, and he did not doubt that Mr. Heynemann would accept the money, and at once give the company back the mines, but if he did not do so they could recover them by the process of law. He (Mr. Heynemann was bound to give the shareholders an account of every pound of ore which had been taken out of the mines, and he did not be lieve that Mr. Heynemann was bound to give the maney and he did not be lieve that Mr. Heynemann was bound to give the makes had been and he did not believe that Mr. Heynemann would give them anything but correct accounts. The action which he took in taking possosion of the mines was certainly not the act which a man in his position, having the confidence of the shareholders, shoul

s welfare. The resolution was seconded by a shareholder, and carried. Col. D'OYLEY, in acknowledging his re-election, said he was a considerable share-older, and should do his utmost to promote the interests of himself and brother shareholders.

The CHAIRMAN, in answer to Mr. Bernard, said the directors were willing to tak
their proportion of the debentures, and he hoped they would be supported by th

areholders. A vote of thanks to the Chairman and directors closed the proceedings.

ALMADA AND TIRITO CONSOLIDATED SILVER MINING COMPANY.

The ninth half-yearly meeting of shareholders was held at the offices of the company, Finsbury-circus, on Monday,
Mr. PHILIP F. NEEDHAM in the chair.
Mr. H. G. DENNISS (the secretary) read the notice convening the

Mr. PHILIP F. NEEDHAM in the chair.

Mr. H. G. DENNISS (the secretary) read the notice convening the meeting.

The report of the directors congratulated the shareholders on the large deposit of ore already found in the Mina Grande Mine. The Trito Mine continues to yield large returns, and with the present favourable season for water the directors auticipate steady and increasing profits. The total value of the ores raised and prepared for market, either by concentration, cleaning, or amalgamation, for the six months ending June 30, was \$124,938-15. The profit for October is the largest as yet made in any month since the formation of the company, amounting to \$11,348. Beneard of this profit is doubtless from Mina Grande ore, but not much, as Mr. Clemes has not yet descided on the best mode of treating the ores from that mine. The directors had hoped to have heard in time for this meeting the result of the experiment is contained in a letter of Mr. Symons, an experienced assayer and mealinglist, who has the conduct of it, of Oct. 5. That gentleman appears to expect favourable results, although it is probable that there will be some loss of silver in the operation. Should the experiment prove successful, and lixiviation be carried out, the saving of cost to the company in realising the value of its ores will be very great. In connection with this subject, and with a view also to the saving of water, the directors have had under their consideration the purchase of a dry concentrating machine, which they think might prove a valuable addition to the company's plant. The question of water for the various operations carried on by the company continues to occupy the constant attention of the directors, and they think that the supply referred to by Mr. Clemes, in the Santa Rosa Valley should be ecured. This will only cost about \$7000. They do not anticipate any great scarcity during the next dry eason, as the rainy season this year appears to have been favourable for filling the wells. The directors, therefore, may reaso

ply of ores via Cape Horn, and congratulate the sharteneders upon the tempers prospects of the company.

The report of Mr. J. P. Clemes, the manager, stated that the gross output of ores for the half-year amounted to 8055 tons, against 6341 tons the previous half-year. The yield of clean ores from the same was as follows:—Patio ores, 2000 tons; black ores, 1960 tons; black stone ore, 121 tons; and petanque, 1 ton. Net yield after concentration 1941 tons of patio ores, and 301 tons of ore for shipment. The average value of rough ores as sent to surface was \$15.51, against \$19.43 per ton the previous half-year, and of ore prepared for the stamps \$29.93 per ton, against \$25.76 the previous half-year. The value of the ores reduced here amounted to \$95,520.75, and the ores prepared for shipment have an estimated net value of \$29.412.37, free of sacking, transport, freight, and sale charges. Total net value, \$124,933.16. Working expenses, including machinery written off, \$113,690.69.

......Sept. 812314 12612100 None

This must be considered very satisfactory indeed. As stated in the report, the value of the ores en route was 5800l. Formerly all their ore came from Mazatlan overland to Colon, and from thence by ore came from Mazatlan overland to Colon, and from thence by steamer to Bremen or Liverpool, but they were now getting their ores via Cape Horn, the difference in freight charges being estimated at 4l. to 6l. per ton. Although it was impossible to overrate the importance of this difference, it was for the time causing inconvenience, as it made a difference of eight months in the time as compared with the overland passage. Allowing for the uncertainty of sailing vessels, and the variety in the periods of embarking the ore, they considered the difference of time nearly eight months. Therefore, this transition period of obtaining remittances from the mines made a difference of eight months, but when this time had passed they hoped and expected to receive regular shipments, via Cape made a difference of eight months, but when this time had passed they hoped and expected to receive regular shipments, via Cape Horn, at very diminished freight, compared with formerly. There were large quantities of ore ready for shipment by the Palmerston, and he believed they would continue engaging freight periodically; the \$16,000 had arrived home by the Tasmania, and had been sold at a low price, but at the same time full market price. The value of silver in Europe had been very much depreciated of late on account of the changing in Germany of the silver for gold currency, and the large shipments to the East by the German Government had reduced the value of the dollar; unfortunately for this company, the last shipment arrived home at a time when they could realise only 56½ rs. per oz. They had been hoping to receive some further information from Mr. Clemes concerning the lixiviating process upon the Mina Grande ores. A telegram had been resome further information from Mr. Clemes concerning the lixiviating process upon the Mina Grande ores. A telegram had been received from him a few days since as follows:—"Lixiviation feasible—partial adoption recommended." They were in great hopes these ores would be in a great measure treated by this new process of lixiviation. Mr. Breach will go out again to the mines in January; Mr. Clemes' engagement with the company expires this year, and after Mr. Breach's return they expected Mr. Clemes would visit England, and the directors were very desirous to again secure his services, and would do all in their power to do so. The present half-year promised to be very much better than the last; there had been a very great fall of water, greater than for many years, and sufficient to fill up all the reserves. The question of water was of very great importance, and one which the directors had under their serious consideration. The new map on the wall showed the position of the Mina Grande, and what had been so far explored; of course, it was impossible to say to what depth it would hold. The directors in their report explained the reason the dividend recommended at the last half-yearly meeting had not been paid, but exmended at the last half-yearly meeting had not been paid, but expected to be able to pay it as soon as the ores which were en route were received; the delay had been caused, as he had already explained by the mode of getting the ores home from the mines. That time must be tided over, and once tided over they were satisfied, if there

must be tided over, and once tided over they were satisfied, if there was no unforseen contingency, dividends would be declared regularly. He then moved that the report and accounts be received and adopted, ——Mr. MARTINEAU seconded the proposition.

A SHARKHOLDER asked when the dividend was declared? ——The CHAIRMAN said the dividend was not declared, but only authorised at the last general meeting.

A SHARKHOLDER asked if there was any money in hand? — The CHAIRMAN said the balance at the banker's was 400%, but that was never intended for the payment of dividends. It was money received for debentures. The directors considered that money was not available for dividend.

A SHARKHOLDER drew attention to the fact that 60 tons of the concentrated ore coming forward had been valued at 12% per ton, while that sold had realised 40%, per ton.

coming forward had been valued at 12%, per ton, while that sold had realised 400, per ton.

Mr. MORGAN explained that in one item for concentrated ore the amount was 120, per ton. The difference arose in the "19v."

A SHAREHOLDER said that sold had averaged from 37l. to 45l. per ton.

The CHAIRMAN said the valuations were all Mr. Clemes's. All the ores from the mines were shipped by Mr. Clemes, and according to his valuation they were put down, and his valuations of the last four shipments had not varied 3 per cent. The ore coming by the Pasha was evidently of a very low "ley."

Mr. Berach said that was Tirito ore.

The CHAIRMAN said the extinated price was per American ton, which made a difference of 10 per cent.

GAN explained that it was partly owing to the latter ores coming from

Mina Grande and the former having come from Tirito. The latter ores were capable of very much higher concentration than were the Mina Grande, which were to a great extent lead ores.

The CHAINMAN, in reply to a question, stated that the debentures had been issued at par for seven years; there was still a small amount to be issued. They were payable in installments of 20. per cent. by drawing.

The report and accounts were received and adopted.

Mr. Mes proposed that the best thanks of the shareholders be given to the Chairman and directors.—Mr. Johnson seconded the proposition, which was not and carried.

Chairman and ancesses— put and carried.

The CHAIRMAN said that on behalf of his directors and himself he begged to re-turn the shareholders their best thanks. He could only assure them that every effort would be continued to promote the prosperity of the company, and he hoped the next time they met he should have the pleasure of placing before them some very good news.—The meeting then separated.

KINGSTON VALLEY LEAD MINING COMPANY.

A general meeting of shareholders was held at the company's offices, Gresham House, Old Broad-street, on Tuesday,
Mr. S. F. PORTER in the chair.
Mr. D. FORREST (the secretary) read the following notice convening the meeting and the reports of Mr. Thomas Sopwith, jun., and of Captains James Seccombe, Thomas Richards, Henry Rodda, and James Richards were submitted:—

vening the meeting and the reports of Mr. Thomas Sopwith, jun., and James Richards were submitted:—

From the reports of practical men, and from repeated personal inspections, the directors are convinced that the company is in possession of a mine of an exceptionally valuable character. Ore ground has already been laid open, containing large quantities of silver-lead ore, which has been proved from assays by the first assayers of the day, to be remarkably rich in silver. A considerable quantity of ore has been raised, and it only requires the outlay of capital to make the property a good and permanent dividend paying mine within a very short time. Mr. Thos. Sopwith jun. (whose report was published in full in the Journal of Nov. 21) states that "the funds of the present company have been judiciously expended, and it is evident that great economy has been exercised." The whole of the shareholders' money has been laid out in developing the mine—the directors, manager, and secretary all looking to the future for remunencention, and making no charge even for office expenses until the mine is a success.

Capt. James Seccombe, after referring to the various points of operation, reports that there is a decided improvement in the general character and value of the lode from the adit to the 16, and strong indications of further increase in richness as greater depth is attained; therefore, he advises that, in addition to laying open the lode in length, arrangements be made for resuming the sinking of the shaft as soon as possible, believing that if this mine be worked with energy you have every prospect of speedily rendering it a profitable property.

Capt. T. Richards, of Hingston Down Consols, was pleased to say that the good opinion he had already formed of the property was far more than realised. The very large and masterly lode, the silver-lead or it already produces at such little distance from the surface, together with its general composition, in many respect resembling that of the Dividend lead mines of the Liske

Capt. James Richards, of Devon Great Consols, was most favourably impressed with the masterly appearance and great strength of the lode throughout the whole of the workings, and goes to state that it undoubtedly possesses the true features of a great lead-bearing lode, being rich in silver and strongly mineralised, with a large quantity of gossan, carrying also an abundance of capel and a large proportion of carbonate of lead, forming altogether great strength and durability of character. A large and valuable lode has gone down in the bottom of the adit level, and in the 18 below—the deepest point reached—an important improvement has taken place, such as he had rarely, if ever seen, in the early stages of development of any mine. The produce of silver-lead, carbonate of lead, and blende ores from the present workings is considerable, as may be viewed at the surface, and the lode in the present end and in the rise in the back of the 18 will yield large quantiles of lead and blende ores. On a previous occasion he was very unch struck with the appearance of the lode at surface, and the remarkable congenial nature of the country through which the shaft was then being sunk, as well as with the flookan courses and the large cross-course coming in contact with the lode, and these indications having already led to the discovery of a course of silver-lead, he has no hesitation whatever in expressing his opinion that the extension of the workings will lead to the laying open of a great mine.

Assays by Messrs. Johnson, Matthey, and Co. give from 19 to 76 per cent for lead, and 9, 13, 27¾, and 226 ozs. of silver to not galena. Mr. T. Harvey, of Tavistock, found 7¾ in 20 for lead, and 185 ozs. of silver to the ton, and Mr. T. M. George, of Liskeard, found from 34 to 47 ozs. silver per ton in the leavings.

wings.
The CHAIRMAN said they had expected to receive a better response from the shareholders, but regretted to say that out of the 80001. offered for subscription only about 8001, was applied for and allotted, and he might remark for the information of those shareholders that did subscribe that no allotment would have been made had they not and he might remark for the information of those shareholders that did subscribe that no allotment would have been made had they not been assured by two other shareholders that they were prepared to take up every shilling of the capital not applied for otherwise. They failed, however, to complete their promise, and the directors had, therefore, to turn to other quarters, obtained another promise, but were again disappointed, and now, as a last resource, placed the matter before the shareholders. The directors had endeavoured to keep them fully informed of everything since the company was established, and they had at least the satisfaction of knowing that not one pennypiece had gone into the pocket of anyone, and that no office rent or anything, except postages and such like, had been charged. He would like the shareholders to give them some hint as to what they should do. Mr. G. F. Richards was present as a shareholder, though not as their engineer, for the company did not pay his expenses for coming up, but he would, doubtless, give them every information in his power.

Mr. G. F. RICHARDS had really nothing to add as to the mine beyond what the shareholders already knew; it was still looking exceedingly well, and the reports accurately described the present position of the mine. They had driven 30 fathoms west of the main cross-cut from the engine-shaft; they had risen 12 fathoms in back of the 18 fm. level, and sunk of sms. In the bottom of the aidi level; in both boints the lode had been good, and almost continuous, and there remained about 5 or 6 fms. to drive to communicate the two points. He might say that the present appearance of the mine warranted its being further developed; the shaft should be sunk and the ore ground opened out systematically, and made ready for stoping away.

Mr. ENGERAGH (a director) said that one reason for calling the shareholders

should be sunk and the ore ground opened out systematically, and made ready for stoping away.

Mr. ENGEDBACH (a director) said that one reason for calling the shareholders together was this. The directors were all prepared to go on provided they had the co-operation of their fellow-shareholders. They were not mining gentlemen themselves, but Mr. Sopwith (whose name was probably known to them all) and Capt. Seccombe had been there, and reported favourably. It had now, however, come to this—Should they continue to work a good property, or should they abandon it?

Capt. JAMES SECOMBE went to the mine in the first instance out of curiosity, having requested Mr. Gibson to send him an order to examine the mine. The directors happened to be there at the time, and he need not say more of his opinion of the mine than that after his visit he bought shares; he was satisfied that if they had money to develope it properly they would have a great mine. He had never seen anything at so shallow a depth that held out better prospects. If he might venture to offer a suggestion he would say appoint a committee to confer with the directors as to the best means of getting the money for the future; he thought that if the shareholders would appoint two or three of their number to act as they proposed they might get the money, and he believed they would have success.

The CHAIRMAN said that so far as the board was concerned they would be happy to have two or three more gentlemen to consult with.

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Mr. JOHN D. Rose understood that they had been twice disappointed in getting the money, although the promises were distinctly made. He would like to know the reason of the failure. He could quite understand that if the shareholders showed no disposition to take up the capital the ontside public would not come in. It might be thought that the company was too heavily weighted; he would, therefore, ask what proportion the subscribed capital bore to the nominal capital?

The CHARIEMAN explained that the capital of the original Kingston United Mine was 40,000., of which sum 20,000. was subscribed, 16,000. being paid in shares for the mine. The remaining 4000. was paid up, with the exception of only 91., which was considered good. They thought they had got hold of an extremely good thing, and additional capital being required they called the shareholders together to consult as to what should be done. They wound up the old Kingston United Mine, and commenced the new company, the Kingston Valley, making the nominal capital 50,000., of which 40,000. was appropriated to the holders of shares in the Kingston United, giving an additional lo,000. for working capital. The 8000. which they had tried to put out was part of that 10,000., and of the 40,000. each person holding shares in the old company received his proportion. What the directors now proposed to do was to issue the 8000. a 12 per cent. preference shares, and to hold the same number of ordinary shares, so that the preference shares, and to hold the same number of ordinary shares, as the option of the holders.

Mr. ENGREDBACH explained that at least 4000. would be required. Practically, he said, the board had more money in the company than all the other shareholders put together.

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he said, the board had more money in the company than all size other shadeneds put together.

Mr. Rose thought it was generally considered that the concern were on a fair basis.

The CHAIRMAN believed the mine would ultimately be of great value, and those in the neighbourhood were of the same opinion, which they backed up by taking shares. The expenses were 15% to 20% per month, but lately it had been 25%.

per month, in consequence of the high price of coal and the more extended workings. They were cutting ore of good quality.

Mr. ERGELBACH said they had a large amount of ore at surface which could not be sold to advantage in its present state, and they could not satisfactorily dress it until they had 1000. For dressing machinery.

Mr. RICHARDS and Capt. SECCOMBE expressed the same view as Mr. Rose with regard to the concern being too heavily weighted, but thought there would be no difficulty in making an equitable arrangement, and ultimately Mr. Rose, Mr. Richards, and Capt. Seccombe were appointed a committee to confer with the directors as to the best course to adopt under the circumstances.

Thanks having been unanimously voted to the Chairman and directors, the proceedings terminated.

LLANRWST LEAD MINING COMPANY.

The first annual general meeting of shareholders was held at the mine, Llanrwst, on Monday,

Captain Gilbert in the chair.

The secretary read the notice convening the meeting, and the necessary number of shareholders being present, in accordance with the Articles of the Association, the Chairman declared the meeting

The secretary read the notice convening the meeting, and the necessary number of shareholders being present, in accordance with the Articles of the Association, the Chairman declared the meeting duly constituted.

Capt. Knapp (Dec. 19) reported that the character of the mine as previously represented had been fully sustained during the current year, and that the future prospects are still as good as they were then. It is important to notice here specially that whatever the mine was and has been during its possession by the present company, it is now, with all the additions which have since been made to it, both in the extent of ore ground laid open and the preparatory outlay which has been made for permanent and effective operations, as all the ore which has been discovered and broken is still on the mine. Their arrangements have all been made with reference to the unquestionably permanent character of the mine and its confidence-inspiring prospects. Since the statutory meeting they have projected and sunk a new engine-shaft perpendicularly 20 fms. 2 ft., 10 ft. by 8 ft., 7 ft. within the timber, and substantially divided and cased it from the adit to the surface, fixed ladders, creeted horse-whim, &c. They have also sunk a new whim-shaft 16 fms. 3 ft. from the surface to the 10 above the adit. This shaft was required in consequence of the extension of the ore ground eastward, beyond where they were at the last meeting. This shaft struck the lode about a fathom before reaching the 10, from which point downwards there is a good lode, yielding 1½ ton of lead per fathom, and in ground favourable for progress and produce. The cross-course heaves the lode northward about 7 or 8 fms., and they are now driving at 3%, 10s., per fathom, and in ground favourable for progress and produce. The cross-course heaves the lode northward about 7 or 8 fms., and they are now driving at 3%, 10s., per fathom, and its quality of the service of ground. They have not yet cut this lode at the adit, and sepect to per driving towards it,

MIT. SHARF was recreased the companies expected.

The CHAIRMAN stated that all the directors now tendered their resignation, but he and his co-directors were so sasisfied with the mine and the future prospects of the company that they were ready to accept office again if the shareholders present thought fit to elect them.

Capt. A. S. Gilbert and Messrs. Geoge Benetofski, B. J. C. Helden, and George B. Gregory were re-elected.

8. Gregory were re-elected. Thanks were voted to the Chairman and directors, and a vote of confidence having been awarded to Capt. Knapp, the proceedings terminated.

WHEAL JANE MINING COMPANY.

The quarterly meeting of adventurers was held at the mine on Tuesday, Mr. Charles Hawke, the purser in the chair. The labour costs for the three months ending October were 1507t. 19s.; merchants' bills, 578t.; lord's dues, 198t. The credits were, arsenic, 3t.; mundic, 52t.; tin, 10,843t. 17s.; carriages on ores, 38t. 18s.; balance from last account, 685t. 11s. 7d.: showing a profit on the three months' working of 1445t., leaving a balance in favour of the adventurers of 2150t. Out of this the Chairman proposed to declare a dividend of 1t. per share, which would leave 82t to the credit of the share-bolders. In addition to this, they would have to deal with 48 re-11. per share, which would leave 82½ to the credit of the share-holders. In addition to this, they would have to deal with 46 relinquished shares, which would give them 200½ more, and he thought this would be a very good balance to their credit. The auditor certified that the result of the action taken by the committee in advising the adventurers to stock their tin from Oct. 28 had been a profit of 480½, owing to the increased price obtained, and that there had also been a surplus of 4 tons of tin sold for 22½, beyond the quantity estimated in the accounts, as ready for sale.

The agent's report was very sati-factory, and concluded by saying that the machinery was in good working order, and that, with a small further advance in the price of tin, they were safe in saying they had a good and profitable mine before them, and that the dividend to be declared that day was a sufficient gnarantee that Capt. GLUSS, the manager (in reply to an adventurer) said they were increasing their reserves.

The report was adopted, and a dividend of ½ they show declared.

Capt. Gills, the manager (in reply to an adventurer) said they were increasing their reserves.

The report was adopted, and a dividend of 1l. per share declared.

The Chairmas then proposed that the 48 shares which had been relinquished some twelve months ago should be sold by auction. They were now worth from 4l. to 8l. per share, and he thought it was a good opportunity of disposing of them, and he moved that they should be sold at the Red Lion Hotel next Saturday week, by Messrs. Clyma and Mayne. —The motion was carried unanimously.

Mr. Lowar, an old adventurer in the mine, then proposed a special vote of thanks to the purser, and managers, and the committee for their services, and for the discretion which they had shown in the management of the mine, particularly in the stocking of the tin, which had resulted in a considerable profit, and for having successfully dealt with the many difficulties which had to be met during the late depression in mining. This was seconded by Mr. Tresidder, and carried unanimously, and after an acknowledgment from the Chairman, the proceedings terminated.

WEST WHEAL TOLGUS MINING COMPANY.

A largely attended meeting of adventurers was held on Saturday,

Major Have presiding.

The two-monthly account showed a substantial balance in favour The two-monthly account showed a substantial balance in favour of the concern, and a satisfactory dividend was declared. During the two months of September and October there were 607 tons of copper ore sold, realising 30964, 2s. 7d.; less dues to the amount of 974, 13s., leaving 38084, 9s. 7d. The labour cost for the four weeks ending September was 8814, 11s. 11d., and for October 8654, 7s. 1d. The thirteenth month's working was also included, to the amount of 8934, 5s. 4d., but of this only 2734, 5s. 4d. had to be charged to this account, 6204, having already been charged. The merchants' bills were 11314, 10s. 9d., and after paying off all liabilities there was a profit on the two months' working of 6564, 14s. 6d. This, added to the balance in hand of 2374, 14s. 11d., made a total balance of 8944, 9s. 5d.; and out of this it was now proposed to declare a 14, 5s. dividend, leaving 2544, 9s. 5d. to the credit of the next account.

added to the balance in hand of 2371. 14s. 11d., made a total balance of 8941. 9s. 5d.; and out of this it was now proposed to declare a 11. 5s. dividend, leaving 2541. 9s. 5d. to the credit of the next account. The agent's report was read, as follows:—

Since the breaking of the last rod the water was up 2½ fms. above the 95, thus showing it was 3 fms. below the 105. If the weather prove to be dry for a short time, we calculate on getting the water in fork by the end of next week. The 125 has been driven 2 fms. since the last meeting. The lode is larger than it was at that time; it is 3½ ft. wide, yielding 4 tons of good ore per fathom, worth 30!, per fathom. There are two stopes in back of the 125: the one east of No. 2 rise will yield 12 tons of ore, worth 100. per fathom. The lode in the 115 west is 2½ ft. wide, and will yield 2½ tons of ore per fathom. The lode in the 116 west is 2½ ft. wide, and will yield 12½ tons of ore per fathom. We expect the lode to rise from the back of this ievel to the winze below the 105 is a day or two. The lode in both the rise and winze will yield from 2 to 2½ tons of ore per fathom. The lode in the 105 is 2 ft. wide, principally peach, with a little ore, but nothing to value. The lode in the 95 west is 6 ft. wide, spotted with ore throughout. Yesterday there was a change in the lode, which gives us hope that there is a good lode close at hand. It will now yield 1 ton of ore per fathom. The lode in the 85 west is 6 ft. Sol, per fathom. The rode in the 85 card) is 4½ ft. wide, yielding 7 tons of ore per fathom, worth 70. per fon. The lode in the 55 end west is 2 ft. wide, composed of spar and peach.—Richardis Shaft: This shaft is nearly 6 fms. below the 65. The lode in the 66 west is 2 ft. wide, prove the small and poor. The lode in the 85 cand use is 2 ft. wide, prove the small and poor. The lode in the 66 west is 2 ft. wide, prove the small and poor. The lode in the 85 cand use is 2 ft. wide, prove the small anot of ore per fathom. The stopes in this part of the mine were st

and set on tribute, as we thought that the ground could be worked more advantageously in this way. Our returns for the next two months, after deducting the dues, amount to 4102f. 5s. 8d. This, we calculate, will leave more profit than our books show to-day. We have sampled 237 toos of ore for the first sale for the January and February account.

The CRAIBMAN, in proposing the divideud, referred to the prosperous condition of the mine, especially in regard to the 95.

The accounts were passed, and the dividend declared, and the meeting, which lasted but a few minutes, thereupon terminated.

DOLCOATH MINING COMPANY.

DOLCOATH MINING COMPANY.

The twelve-weekly meeting of adventurers was held, on Monday, the Rev. W. W. Butlin, one of the committee, presiding. The accounts showed that the labour cost and merchants' bills up to Nov. 28 amounted to 13,466l. Copper ores had realised 296l., and the tin ore 16,870l. A dividend of 12s. 6d. per share would take 2685l. leaving a balance in hand of 30ll. The report of the agents was as follows:—
The engine-shaft is sunk 10½ fathoms under the 31½ the lode is worth for the length of the shaft (12 feet) 100l. per fathom. Another part is standing to the north, which we shall cut through when the 336 is reached, which will probably be before the next account. The winze under the 314, east of engine-shaft, is sunt 17 fms. on the south part of the lode, which contains a little tin; the rich part of the lode is standing to the north. The 314 fm. level, west of engine-shaft, is worth 50l. per fathom. We have commenced to sink a winze under the 302 just over this, where the lode contains a little tin, and on being sunk deeper is likely to improve. The 314, east of engine-shaft, is worth 100l. per fathom. The 302, east of new east, is worth 20l. per fathom. The 309, west of old sump, is producing a little tin. The 278, west of old sump, is worth 10l. per fathom. The 268, west of old sump, is producing a little tin. The 248 fm. level. The 248, east of Harriett's, is such to 79 ft. long 30l. per fathom. The 236, west of Harriett's, is worth 50l. The man engine-shaft, which is just before this end, is sunk 7 fathoms under the 238, and is worth for 9 ft. long 30l. per fathom. The 238, west of Harriett's, is worth for 9 ft. long 30l. per fathom. The winze under the 212, west of Harriett's, is worth for 9 ft. long 30l. per fathom.—Capt. Thomas, Capt. W. Provis, Capt. J. Toxkin, and Capt. J. Bawdex.

The CHAIRMANA, after the report and accounts had been unanimously adopted, said there was no need for him to make any observations, as the mine told its own tale very well indeed. There had been unor rise

The winze under the 212, west of Harriett's, is worth for 9 ft. long 507, per finn whize under the 215, each of Stray Park, is worth for 9 ft. long 152, per fathom.—Capt. TROMAS, Capt. W. PROVIS, Capt. J. TOXKIS, and Capt. J. BAWDEN.
The CILAIBMAN, after the report and accounts had been unanimously adopted, said there was no need for him to make any observations, as the mine told its own tale very well indeed. There had been no rise in tin since the last account, and yet they were able to present them with the excellent Christmas-box of 12s. 6d, per share. He was not aware until that day that they could pay so much, and they must consider they were doing exceedingly well at such times as the present. Dolcoath Mine was A 1, for no other mine could be called at all equal to that, and well as they now stood he hoped they would do still better. They wanted a rise in tin, and it was astonishing they had not had it before. (Hear, hear.) The Mining Journal stated that there was a large demand from America, and, therefore, they might fairly look for a rise soon. It seemed to him that in England during the whole of the year nothing had done well. Things had almost all been low, and in foreign countries a similar state of things prevailed. But they must be mach followed to their agents for the kind attention they had given to the interests of the mine. On the countries are similar state of things prevailed. But they must be much obliged to their agents for the kind attention they had given to the interests of the mine. Capt. Raming, and now it was only Dec. 2l. He thought they must be much obliged to their agents for the kind attention they had given to the interests of the mine. Capt. Raming, and the proposed for the pr

CWM DWYFOR COPPER AND SILVER-LEAD MINES.

The following report by Captain Jewell of the operations at these mines for September, 1873, to the end of November last, was read at the meeting of the shareholders, held on Dec. 18, the details of which

mines for September, 1873, to the end of November last, was read at the meeting of the shareholders, held on Dec. 18, the details of which appeared in last week's Journal:—

*Corn Decyfor Mines, Dec. 3.—In submitting to you my report of the operatians since the date of the last general meeting it will be unnecessary for me to enter into the details of the character of the mine, as you are from previous reports well acquainted with the geological position of the property and its mineralogical merits. South Cross-cut: This cross-cut thas been extended since the last meeting 18 ft, making the total distance driven south from the main shaft 17 fathoms. By this extension the No. 4 south, or great silver-lead lode, has been intersected at a distance of 16 fms. from the said shaft.—No. 1 Level East: We have driven this level 11 fms. 1 ft. on the course of the No. 4 lode, and have found that it varies from 1 ft. to 3½ ft. in width, yielding in some parts 1½ to nof copper ore and 10 owts. of lead ore per fathom. Our progress, owing to the hard grit rock we are driving through, is necessarily slow; but, from present appearances, I expect shortly to see a change in the ground for the better. We have about 3½ fms. more to drive to reach the little shaft sunk in the open cut. You may depend on the driving of this level being carried on with all speed. The lode in this level is split into two parts; the north, or copper part, is about 1½ ft. wide, spotted throughout with copper ore of good quality, iron pyrites, &c. The south, or lead part, is 6 in. wide, composed of chlorite, quartz, &c., and carrying a rich rib of silver-lead. The level has lately improved very much in appearance, and we have just met with a cavity or vugh in the lode, which is a very favourable indication. We are also now in close proximity to the slide observable in the open cut, and I wish to call particular attention to this fact, as it is in connection with these slides that the largest and most continuous deposits of both copper and lead ores are fou

North Cross-cut: This cross-cut has been extended 7 fms. 2 ft., making a total distance north from the main shaft of 20 fms. 2 ft.; by the extension the No. 4 north, or old lead lode, has been intersected at this point. There are three other copper lodes intersected in the driving of this cross cut, one valued at 2 tons of copper ore per fathom, and the other two contain copper ore of good quality, but no further work has been done on them.—No. 1 Level Sast: We have driven this level 9 fms. 6 in. on the course of No. 4 north, or old lead lode; the formation is clay-state for the whole length of the drivage. The lode averages about 5 ft. wide, and produces splendid rocks of copper ore and sulphur, with occasional stones of force—a very strong and masterly lode, which, in my opinion, cannot fall in making large bodies of rich ore. We have about 5 fms. 5 ft. more to drive this level to communicate with the shaft sunk from the surface by the old men, where the lode is 7 ft. wide.

No work has been done on the upper, or north copper mine, since the date of the last report. I have carefully examined this part of the mine, and find that the three lodes discovered, and proved metalliferous, are, in my opinion, well worthy of being vigorously worked on, as it is evident that a large quantity of espper ore has been raised from this part of the property.

The driving of the deep adit level under the present bottom of the mine (a very important work) has also been for the prosent suspended, owing to the scarcity of, and the high wages demanded for, labour; this will, however, soon be remedied by the opening for traffic of the Gorsedda Junction and Portmadoc Railway, which is now nearly completed to within less than a mile of the mine (a very important work) has also been for the property.

It only remains for me to add that the lodes in the lower mine are eight in number—six copper and two lead—all parallel, and within a breadth of 37 fms. 2 feet, and all of which I recommend should be driven on. In the upper mine the lode

MALPASO GOLD WASHING COMPANY.

A general meeting of shareholders will be held at the offices, on

A general meeting of snareholders will be held at the offices, on Tuesday.

The report of the directors (to be submitted) states that they have much pleasure in calling attention to the fact that the preliminary work of running a cut up to the main banks, has at length been accomplished, and also that a permanent supply of water has, for the first time in the history of the company, been brought on the mine. The amount expended since the last meeting has been (less amount of gold obtained) 43084, which amount the directors propose to write off to capital account. The returns have been 438 ozs. of gold, realising 1838/. This has been obtained from 1446 hours washing on pay-dirt with an average head of water of 218 inches. During the period embraced by the accounts the work has continued, to be of an entirely intermittent character, the new water supply having only become available on Sept. 12.

During the period embraced by the accounts the work has continued to entirely intermittent character, the new water supply having only become available on Sept. 12.

At the last annual meeting it was determined to raise additional funds for the purpose of bringing on a permanent water supply, and an issue of 10,000l. In preference shares was subsequently authorised. Of this issue 7500 shares were subscribed. The amount raised by the issue of these shares has proved ample for the purpose of carrying the sluide up to the main banks, and also for making a new ditch earlying 1000 to 1500 inches from the River Medina to the Rivar Cantarera, from the latter of which the present Malpaso ditch takes its supply. The work now remaining to be done consists in bringing in a new ditch, from the Cantarera river to the mine, in addition to the present one, which carries at best 300 inches to 400 inches of water, and which is liable, owing to its steep grade, to constant breakages. The new ditch is already levelled, and an embankment made for the whole distance. It has, however, been deemed advisable to demonstrate by the aid of the present ditch, the paying capabilities of the property, before proceeding to construct the new one; meanwhile it is very satisfactory to know that for the future the water supply at the mine will be continuous for the whole year, and that the funds at the disposal of the directors are considered ample for bringing in the new ditch. The sluice has now reached the main banks, which present a cliff of auriferous gravel 230 feet in height. Washing on this bank had only just been fairly commenced when the last mail left, and the directors believe that the first steady run thereon will fully prove that profitable results can be obtained.

Although, owing to unforeseen circumstances, the opening of the mine has been very much delayed, and much disappointment has been caused thereby, yet they have the utmost confidence that the date at which the new and continuous supply of water was, brought on—Sept. 12—w

RICA GOLD WASHING COMPANY.

A general meeting of shareholders will be held, on Tuesday, at

A general meeting of shareholders will be held, on Tuesday, at the offices of the company.

The report of the directors (to be submitted) states that in view of the very great difference, which has thus been proved to exist between the original reports on the water supply, and the actual results obtained, the directors have received an explanation from Mr. W. S. Welton (Mr. Clarke having left the company's service). The company would not have drifted into its present position had their superintendent, who had been appointed on account of his practical knowledge of the subject, taken due and proper care to verify beyond all possibility of doubt the representations made as to the volume and permanence of the water supply, on which the success or failure of the undertaking must eventually depend.

It may be useful to compare the results, thus far obtained, with those of the best class of hydraulic mines in California, of which the Sweetland Creek may be taken as a type. From the commencement of washing at the Rica Mine up to the date of the last clean up on June 15, a period of something over twelve months, \$2995 was obtained in 774 hours' washing with 100 in. of water, being equal to 33 days of 24 hours each. The last run at 8 weetland Creek gave a gross returns of \$34.615, washing 65 days with 1500 in. of water, showing, when reduced to the same basis as the Rica, for 33 days of 24 hours for each 100 in. of water, a gross yield of \$1360 as against \$2995 obtained at the Rica. Considering, therefore, that the actual results hitherto obtained fully confirm all that has from time to time been stated as to the richness of the gravel deposit, it seems clearly established that with a moderate and continuous head of water very large profits may be realised.

It is a great satisfaction to know that additional water can be obtained if the necessary funds can be raised. The monthly cost at the mine has long since been remained on the cempany. The Malpaso property, after passing through similar vicissitudes to those which a

PRUSSIAN MINING AND IRONWORKS COMPANY.

(PREUSSICHE BERGWERKS UND HUTTEN-ACTIEN-GESELLSCHAFT.)

(PREUSSICHE BERGWERKS UND HUTTEN-ACTIEN-GESELLSCHAFT.)

At the annual general meeting of shareholders, held at Düsseldorf on Dec. 12, of which only partial details were given in last week's Journal (the translation of the President's address having been delayed in the post), the President (Mr. W. T. Mulvany) observed that the fact of the company not paying a dividend for the last business year, coupled with the serious responsibity of his position, made it his imperative duty to express shortly his views as to the general causes which have affected many of the industrial companies in Prussia, and the special causes which have injuriously, and for this period exceptionally, affected the company. As to the general causes, he remarks that they have passed through a double crisis—1872-3 and 1873-4—which has affected the coal and iron trades not only of Germany, but of England, Belgium, France, and America; and that the agitation for increasing railway freights on raw materials in Germany in 1873-4, and the departure from the recognised policy of the constitution of the empire in this matter (subsequently sanctioned by the authorities) introduced such an element of doubt and uncertainty into this vital part of industry in an extensive inland country like Germany, has greatly aggravated the evils of the reactionary crisis of 1873-4, and effectually checked enterprise. As to the special causes, he explains that the busines year ending on June 30 involves in this last year of failing prices the two bad half-years of 1873-4, and that their works have been and are unfinished, and therefore their plans are incomplete. The extraordinary and extravagant rise of values and prices of 1872-3, and the consequent reaction of the autumn of 1873 and theorems and prices of 1872-3, and the consequent reaction of the autumn of 1873 and theorems at heirs, except in cases where the whole project and works for carrying it out were completed before the rise in prices.

The rise of prices involved an enormous rise of wages in Prussia, as

where the whole project and works for carrying it out were completed before the rise in prices.

The rise of prices involved an enormous rise of wages in Prussia, as in England, and such an insufficiency in the number of available workmen, and especially the skilled workmen required for their purposes, that it became a vital necessity to buy land and build barracks and houses on a great scale, so as to accommodate and feed and such an insufficiency in the number of available workmen, and especially the skilled workmen required for their purposes, that it became a vital necessity to buy land and build barracks and houses on a great scale, so as to accommodate and feed imported workmen, to ensure a natural and moral control in the labour market, and ensure a supply of such workmen for future years on anything approaching to reasonable terms. This was done under all the disadvantages of enormously increased value of land, materials, and workmenable which in some cases amounted to double, in some to nearly three times, the amount they would have cost in 1888 9; but the great object, which the advance of the industry rendered alike necessary to all their neighbours, was obtained (so far as the purchase of land was concerned, on far better terms), and their present position in the labour market greatly strengthened accordingly. Then came the reactionary crisis in the late autumn of 1873, not only in Germany, but in England and Belgium, resulting in the great and unexpected fall of prices, mainly la the iron trade, leaving on our hands in the early part of this year a vast stock of iron of the best qualities at adepreciated value of 86,000., which at the market price a few months before represented at least 120,000. If such undertakings as theirs are to be remunerative, where Nature has furnished everything of the best, they must be completed, and rapidly completed too, and just in proportion to both these conditions will be the commy in the cost of construction, the saving in bankers' commission, and interest on borrowed moneys.

As special cases over which he had no control, he might remark that their pits were at first contemplated of certain assumed dimensions and depths; to the nature of the strata and other orioumstances involved far greater dimensions and depths, so that, for instance, in taking up those of Zollern, as commenced by the former owners, they were obliged to make them 17 ft. in diameter instead of 14 ft., as original

for three or four years, and one up to the present time being over six years, and they were compelled to make tramways for several miles along the public roads instead. By the more recent purchase of lands and iron miles they have now, with the exception of small portions of the public roads in a few transcers. In the way now, with the exception of small portions of the pregards the acquisition of property for the completion of the project as a whole.

With regard to the collieries he remarks that they are situated in what may be termed vigin country, that is, a part of the coal district where no collieries existed, and the coal measures are deeply covered from 350 to 680 ft. with the marl or chalk formation, which latter contains great quantities of water, whilst the coal formation itself, which lies under this, is comparatively free from it. This fact was well known before they purchased Hansa and Zollern, as the companies which possessed these collieries were made bankrupt in their attempts to sink the pits through the water-bearing measures of the marl, whilst the present company by a different system accomplished this feat with one pit in Hansa and one in Zollern. In Erin, on the other hand, where all the borings were made under their personal direction many years ago, they anticipated no water below 170 ft. from surface, and in fact sunt their two pits at this colliery below that point to 1160 ft. without any pumps in the shaft. Under these circumstances they prepared for, and by means of iron tubbing, excluded the water from the pits, and though they do means of iron tubbing, excluded the water from the pits, and though they do means of iron tubbing, excluded the water from the pits, and though they do means of iron tubbing, excluded they water from the pits, and though they do means of iron tubbing, excluded the water from the pits, and though they do means of iron tubbing, excluded the water from the pits, and though they do means of iron tubbing, excluded the water from the pits, and though they are t

AMERICAN IRON AND STEEL INDUSTRIES.

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The series of commercial reports by Her Majesty's Secretaries of Embassy and Legation have recently received a valuable addition in the shape of a paper by Mr. J. P. Harriss-Gastrell on "The Iron and Steel Industries of the United States." The recent depression in that branch of American industry, notwithstanding the care with which it has been protected by absurd tariffs, gives special interest to this report at the present moment. Mr. Harriss-Gastrell first deals with the primary materia's of these manufactures.

The is not 30 years since the first iron ore was taken from the Jackson Mine at Negaunee, and now it is from the Lake Superior ores that one-fifth of American iron is made. The first sample was declared valueless, yet the result of its working has been to fill what was then a wilderness with 20,000 people. In 1873 the Lake Superior region yielded 1,278,879 tons of ore, whilst the Missouri region is estimated to have produced 750,000, and the Lake Champlain region 475,000. It is impossible even to estimate the quantity yielded by the other regions. The Michigan iron mines are, according to a statement which is regarded as approximately correct, worked by 4032 men, whose wages for one month amount to \$273,700. The total disbursements for the same period are given as \$374,633. In 1873 the production was reckoned at 1,197,000 tons of ore, worth at the mine \$8,012,250. It is seldom that the mines are worked more than eight months of the year. The cost of production at Marquette, the chiral production of Lake Superior was said to vary from \$2.50c.

Delaware, Maryland, Western Virginia, together with the famous Hanging Rock district, is essentially a region of scattered local ores. At Franklin, in New Jersey, is the noted Franklinite ore, from which spiegeleisen is made. The cost of production varies from \$1 60c. to \$2 10c. A million tons are yearly mined in this region. At the end of 1873 there were 636 furnaces, whilst 122 more were in contemplation. This statement shows 265 charcoal, 201 anthracite, 162 bituminous coal and coke, and seven mixed furnaces, of which only one weak rest as fuel. Another estimate makes them

which only one used peat as fuel. Another estimate makes them 712, and reckons the production at 2,662,534 tons. In January this year returns from 385 were received, showing that 12,522 hands were unemployed. The financial panic seriously affected the iron trade. Whilst the margin of profit was large many of the iron-masters were content with antiquated structures, but these are giving way to new ones of improved construction. The cost varies years greatly. It is usual to consider it as averaging \$10 per ten-efgiving way to new ones of improved construction. The cost varies very greatly. It is usual to consider it as averaging \$10 per ton of pig made in a year. Mr. Harriss-Gastrell supplies many details which will be interesting to the English expert anxious to compare our methods with those of America. At the present time the owners our methods with those of America. At the present time the owners of furnaces are seeking, individually or in companies, to possess their own ores. The richness of many of the American ores helps

to counterbalance the dearness of labour. The best ores are at a distance from the iron-producing regions. In Pennsylvania pig-iron ores appear to be plentiful, with the exception of Bessemer pig. There is a scarcity of steel ores, the cost of transport more than quadrupling the price of those from Lake Superior and Missouri, the chief source of supply. The cost per ton of anthracite pig-iron is reckoned at 4l. 12s. 9d.; of coke pig-iron, 5l. 5s. (in south, 3l. 14s. 9d.); block coal pig-iron, 4l. 16s. 9d. (in south, 3l. 13s. 9d.); charcoal pig-iron, 6l. 11s. (in south, 4l. 9s.) The estimated annual capacity of all the furnaces in the United States is 4.371,277 tons. A statement is given showing that of a make of 475,002 tons 57,566 tons were cold-blast and 417,636 tons were hot-blast charcoal pig-iron. Castings from American pig are generally admitted to be superior to similar castings from English pig.

The total yearly capacity of the Bessemer works at the end of 1874 will be 222,000 net tons. Six heats were the maximum in England three or four years ago, whilst from 18 to 24 heats are the standard practice in America. The improved plant leads to much larger production. In one instance 48 blows were successfully attained in 24 hours, with two cupolas only, the amount of steel produced being about 270 tons. In this case 14 blows would have been a fair day's work. In 1868, 8500 tons were made; in 1873, 140,000 tons.

The history of the iron and steel industries of the United States.

The history of the iron and steel industries of the United States shows a rapid development. In 1810 there were 153 furnaces; the annual product of pig-iron was 53,908 tons; there were 364 bloomeries, forges, and rolling-mills; the annual product of wrought-iron was 24,541 tons. In 1872 the annual product of pig-iron was 2,250,000 tons, of a value of \$90,000,000; there were 400 bloomeries, forges, and rolling-mills, the annual product of wrought-iron was 1,602,000 tons, and its value \$175,000,000. The group of iron and steel industries in the United States represented in the last census a value of nearly \$102,000,000. The hands employed were 338,213, whose annual wages averaged 53/. The aggregate production was valued at 68,160,000/. A rail mill with a capacity of 60 tons per 24 hours would cost \$20,620 to construct. Bessemer works and mills with all modern improvements, and with a capacity of 150 tons of rails per day, would have cost from \$93,750 to \$112,500. In 1873 the cost of making iron rails was about \$70 per ton, but is now less than \$60. Bessemer steel rails cost about 13/., in place of 15/. The cost of producing finished iron is given in the census as 14/.8s. 4d.; now it would probably be 12/.18s. 9d.

The cost of production, Mr. Harriss-Gastrell thinks, is as low as it is likely to be under the present economic and industrial conditions. As regards materials there seems little chance of any cheaper cost of anthracite, but the cost of producing coke or block coal may be lessened. Wages have fallen from 15 to 20 per cent. The history of the iron and steel industries of the United States

The cost of production, Mr. Harriss-Gastrell thinks, is as low as it is likely to be under the present economic and industrial conditions. As regards materials there seems little chance of any cheaper cost of anthracite, but the cost of producing coke or block coal may be lessened. Wages have fallen from 15 to 20 per cent., and, with the present cost of living, can hardly bear further reductions. Transport is generally thought to be too high. Labour-saving contrivances are eagerly sought for.

The question of the tariff is one that is greatly debated in America, and the copious extracts which Mr. Harriss-Gastrell has given from protectionist writers give a facetious colour to some of his pages. America has disadvantages as compared with an older and more compact country like England. The higher price of labour, the higher rates of interest, the smaller accumulation of capital, the lesser period of manufacturing activity are those he names; against these place the great advantage that "there are no honoured ruts to upset the honest inventor." England uses to-day, in many of her manufactures, tools and machinery inferior to American inventions which meet similar requirements" is a boast often made on the other side of the Atlantic, and not altogether without reason. The Eastern States have the disadvantage of being fer off the coals; but Connecticut has taken the lead in the best hardwares, and Boston makes the best locomotive plates. Except in Ohio, the Western States make as yet only a small quantity of merchant iron. St. Louis is by some regarded as a probable rival of Pittsburg as an iron centre. Opinions vary as to the capabilities of the South, in spite of its known richness in ores. Opinions vary as to the capabilities of the South, in spite of its known

richness in ores.

English rails are still imported. The Americans think that if their labour were only a little cheaper they could compete with us in pig-iron, but not in bar-iron. America will soon have complete possession of her own markets. The value of her iron and steel exports was, in 1871, \$19,005,090; in 1872, \$8,747,106; in 1873, \$11,119,831. The excess in the first year is due to the large trade in rifles, &c., during the Franco-Prussian war. In 1872 railroad bars were exported to Canada, Cuba, Brazil, Mexico, Columbia, Venezuela, and England, which took \$150 of the \$92,980 at which they were valued. In the production of a superior charcoal iron Lake zuela, and England, which took \$150 of the \$92,980 at which they were valued. In the production of a superior charcoal iron Lake Superior probably offers the greatest possibility, the chief difficulty being that of fuel. Experiments have been made with peat, but the problem can scarcely be regarded as solved. The railways built and to be built will, no doubt, increase the facilities for charcoal, and the Canadian schemes for developing their canals will lessen the freight to Montreal by probably about one-half of last year's rates. It ought then to be possible to export charcoal pig-iron even to England. There is reason to foresee that Pennsylvania, on the east of the Alleghanies, may look to foreign markets for her customers. As a rule, workmen who are excellent only in some specific branch

As a rule, workmen who are excellent only in some specific branch of industry do not succeed so well as those who are handy men, able to do a little of everything mechanical.

IRON ORE REGIONS OF THE UNITED STATES-No. III.

IRON ORE REGIONS OF THE UNITED STATES—No. III.

The ores of Illinois are confined so far as known to the coal measures, and are generally contaminated with sulphur to an unworkable extent. Formerly some lower coal measure ores of the honeycomb and pipe varieties were worked, but run out. These yielded about 56 per cent. of iron. The iron ores of Indiana are few, and generally poor in quality, and while Nature seems to have denied this State the deposit of mineral so general in others the State is yet a very successful iron-making locality. This is owing to the abundance of superior block coal, the only fuel except the splint coals of Virginia and anthracite capable of making iron without coking. To this coal the State of Indiana owes without question its rapid and continuous progress in manufactures. In Jasper county bog ores are abundant, covering an area in the aggregate of 6000 acres. These beds are generally 1½ ft. below the surface, and but a few inches thick, increasing in some localities to 2 ft. The same ore is found in Starke county, and has been mined to some extent. This ore is a remarkably pure bog ore, and for admixture with Lake Superior ores is very desirable should cheap freights permit its utilisation. In Carroll county are large beds of bog ore, which were formerly worked at Logansport in a forge, being transported a long distance by wagons. In Raccoon Valley, Parke county, kidney ore is said to be abundant, as also in many localities in Jackson township. The people of the State are especially energetic and enterprising, and have made their advantages in coal widely known, thus attracting a very considerable capital to them, and building up a highly prosperous manufacturing community in a purely agricultural region. cultural region.

The iron ores of Kentucky comprise brown hematites and kidney and block ores, carbonates principally. In Western Kentucky they have been worked for years with charcoal, and in Eastern Kentucky and along the Ohio river with coal from the Eastern Kentucky coal fields. The iron region of Western Kentucky is a northern extension of the Tennessee brown hematites, and is between the Cumberland and Tennessee rivers. Here are numerous furnaces and many old forges. The ores found in this region range from 25 per cent. to 50 per cent. iron, generally rather low in chemical impurities, and with a coniron, generally rather low in chemical impurities, and with a considerable quantity of silicious matter. According to Dr. Owen blackband ores are found in the upper coal measures of Muhlenberg county. Although one of the greatest iron-making States in the Union, Ohio depends rather upon Michigan and the Lake Superior Union, Ohio depends rather upon Michigan and the Lake Superior region for the great bulk of her ore supply. The native ores of Ohio are confined to the carbonates of the upper and lower coal measure. The largest known supply of true blackband ore in the country is found and extensively worked in Tuscarawas county, while the kidney and block owes are extremely abundant in the Hanging Rock region of Southern Ohio, on and adjacent to the Ohio river. Before the development and shipment of the Lake Champlain and Lake Superior ores the industry in this State was precarious and uncertain. Since the introduction of these ores, however, the abundant and superior coals have firmly established and developed one of the most thriving and profitable iron industries of the country. Not only is the State a very large producer of pig and rolled iron, but was the first in the country to introduce the Bessemer steel process west of the Alleghanies, and is, moreover, second to none in the production of agricultural and miscellaneous machinery. In Northduction of agricultural and miscellaneous machinery. In North-eastern Ohio the furnaces mix the Lake ores with the nodular and blackband ores of the coal measures. Near Youngstown, on the Mahoning river, most of the numerous furnaces pursue this course, In this locality the blackband and kidney ores, everywhere abundant, are used about one-fourth each with the best Lake Superior ore. In Southern Ohio are very many furnaces running almost entirely on

In this locality the blackband and kidney ores, everywhere abundant, are used about one-fourth each with the best Lake Superior ore. In Southern Ohio are very many furnaces running almost entirely on the native ores, which are varying in character, but all of the same geological formation. The ores of Ohio, therefore, while they do not present the commercial interest of some other States, are extremely valuable as admixtures, and in the case of true blackband ores will be extensively developed in the future.

In Maine there are deposits of the primary ores, principally red hematite, of which the most extensive deposit is found in the Aroostook river, 50 miles above its mouth. This ore contained considerable manganese, and was found in the metamorphic slates. The iron industry in Maryland has been carried on since a very early day, indeed, long before the Revolution, and some of the same furnaces, or some of their successors at the same localities, are still engaged in the business. The ores are not as extensively found as in some other States, but are of good quality, and easily worked. The principal magnetic ores mentioned are the Tyson and Carroll Mines, near Sykesville, while at the Point of Rocks in the Blue Ridge, on the Potomac, 12 miles west of Frederick, are enormous masses of fine limonite, a hydrous oxide of iron in soft slates. At Frederick are splendid beds of brown hematite, and at the old Catoctin furnaces in Frederick county are beds of an argillaceous oxide of iron, with a considerable percentage of carbonate of zinc. On the Monocacy Creek, and near Sharpsburg, at the old Antietsm furnaces, one of the earliest ironmaking sites in the county, are also argillaceous of the earliest ironmaking sites in the county, are also argillaceous of the earliest ironmaking sites in the county, are also argillaceous of the earliest ironmaking sites in the county, are also argillaceous of the earliest ironmaking sites in the county, are also argillaceous. with a considerable percentage of carbonate of zinc. On the Monocacy Creek, and near Sharpsburg, at the old Antietam furnaces, one of the earliest ironmaking sites in the county, are also argillaceous oxides and brown hematites. In Carrol county are argillaceous oxides, and near Westminster are manganiferous ores. Fossil ores are found at Cumberland, and are the supply of the furnaces there. In Alleghany county it was supposed formerly that very extensive deposits of ore existed, and close examination was made at the instance of the George's Creek Coal and Iron Company. These ores were the carbonates of the coal measures interstratified with fire-clay and shales, and representing a workable thickness of some 7 ft. in a depth of 55 ft. Bog ores exist also to some extent in the tide water counties of the Peninsula, and have been and are worked on the affluents of the Chesapeake Bay.

of the Chesapeake Bay.

The primary ores of Massachusetts are not numerous, but both magnetic oxides and micaceous specular ores are found in Franklin county. These occur in beds 2 ft. thick, and almost adjoining each other, a curious geological formation not easily explained. The hematites occur in the north-western portion of Massachusetts, and are the same ores which adjoin in Vermont on the one side, and in Connecticut on the other extending themse into Eastern New York. are the same ores which adjoin in Vermont on the one side, and in Connecticut on the other, extending thence into Eastern New York. These ores are all, as in Vermont, more or less manganiferous; they have been worked from a very early date, in some cases prior to the Revolution, and charcoal furnaces are still conducted at Lanesborough, Richmond, and Cheshire, with one, the only anthracite furnace in Massachusetts, at West Stockbridge. These ores have been very abundant, and although the furnace industry has never been very greatly extended the regions named have always produced iron. NEW HAMPSHIRE was formerly the site of a considerable charcoaliron industry, of late years almost entirely abandoned. The magnetic of the control of very greatly extended the regions named have always produced iron. New Hampshire was formerly the site of a considerable charcoaliron industry, of late years almost entirely abandoned. The magnetic ores were of considerable importance and good quality, and were found in various localities, principally in the White Mountains. In the town of Winchester a massive steel grey ore, in beds from 5 to 40 ft. thick, was worked in 1795 at Furnace Village. On Thorn Mountain, in Jackson, at Piermont, are specular ores. Baldface Mountain, in the town of Bartlett, a mile from the Saco river, and 1400 ft. above it, contains large veins of magnetic ore (peroxide, protoxide, and manganese), found in granite and greenstone. This is said to be the largest deposit of magneties in New Hampshire. Near the village of Franconia, in the Franconia Notch of the White Mountains, the New Hampshire Iron Company worked a vein of magnetic ore found in granite walls. This ore was worked in the Franconia furnace in the village, and the product cast into stoveplates. Steel was also made here from this ore to some extent previous to 1800. The vein first worked was wide, being some 6 feet, but at a depth of nearly 150 ft., pinched to a width of 1 ft. The old excavation has caved in, but at the last blast previous to 1880 an adit was run in the side of the mountain to reach the vein. The writer obtained here in the summer of 1872 a piece of an old pig which had been made in the first furnace, carried away by a flood many years ago; this pig had been unearthed from the bed of a creek, formerly the site of the old furnace, by a similar flood to that which buried it, and by the statements of reliable inhabitants of the village had been buried over 40 years. It was broken with great difficulty on an anvil, and showed many peculiar features of malleability, the iron drawing cold almost like wrought-iron before fracturing, and the fracture presenting rather the appearance of steel than iron.

, and the fracture presenting rather the appearance of steel

To thoroughly describe the immense masses of iron ore found in To thoroughly describe the immense masses of iron ore found in what is known as the Lake Superior Region of Michigan would be tedious, but the geological and chemical formations of the region have been the subject of numerous scientific treatises. The first Lake Superior ore submitted to a thorough test in a blast-furnace, in competition with the hematites of Pennsylvania, was run through the old Sharpsville, Pa., furnace in 1854. Previous to this time iron from the ores of the Jackson Mine had been made at the Carp forge, near Negaunee, and afterwards at the Marquette forge; and some indifferent experiments were made with the ore in some other localities, but not upon a scale which could give character to the ore or to the region in which it was mined. The first real furnace tests, however, were those made by Mr. David Agnew in 1854. In 1856 the Clay furnace was reconstructed by the Sharon Iron Company, and this is in all probability the initial point of furnace work with Lake Superior iron ore so far as furnishing the general market with pig-iron is concerned. In 1873 the iron ore shipments were 1,066,875 tons, and the pig-iron shipments were 35,245 tons. The rock formation of the Lake Superior iron region is of the oldest geological age, being made up of the Laurentian and Huronian systems, which contain no remains of animal life, and are hence termed azoic. The Laurentian system is here represented by the granite beds, whilst the Huronian, in which the ore beds occur, is made up of strata differing in composition. The ore beds occur between the quartz and diorite, the former constituting the hanging and the latter the footwall of the seam. The diorite is composed of feldspar and horrelands. This lavers of chlorite is composed of feldspar and horrelands. what is known as the LAKE SUPERIOR REGION OF MICHIGAN would diorite, the former constituting the hanging and the latter the footwall of the seam. The diorite is composed of feldspar and horn-blende. Thin layers of chloritic and talcose schists often intervene between the ore and its walls, or lie in the centre of the seam itself. According to the opinion of those geologists who have recently examined the formation with great care, the ore was originally dissolved out from the pre-existing strata by chemical agency, and deposited by precipitation in horizontal beds, which were afterwards exposed to great heat and pressure, resulting from the great upheaval and disturbance which characterised the azoic age, by which the strata were upturned, pressed into folds, and displaced in a similar manner to the formation along the line of the Alleghany mountains. By subsequent erasion the tops of these folds were removed, giving to the ore beds the general appearance of fissure veins, although, upon careful investigation none of the phenomena accomalthough, upon careful investigation none of the phenomena accompanying veins of this class can be discovered.

IMPROVED ROCK-DRILL.—By the invention of Mr. W. HOAR, of Floyd, Iowa, the main portion of the drill is attached to the shank by means of a socket and screw. A section has a long mortise and a wing on each side, secured by a tenon, which extends half-way through the mortise, and fill it in length and width. Through each of the wings are two mortises, which receive each a gib and key. The outer ends of these mortises are made angular, and the gibs are made to fit, so that they cannot work longitudinally when the keys are driven, while angular portions serve to hold the two wings together. The wings as well as the main part have each a cutting edge with right-angled lips.

Mlining Correspondence.

BRITISH MINES.

BRITISH MINES,

ABERDAUNANT.—S. Toy, Dec. 22: In No. 2 adit level, driving east, the lode is getting more settled in the past week, and still producing a little lead. No. 4 stope, over this level, has improved in the last week, and is now worth 15%, per cubic fathom for lead. We are making good progress in clearing Rule's shaft, and have put a footway in it, also in clearing No. 1 adit level east.

BAMPFYLDE.—J. Juleff, Dec. 22: The stopes are looking well, and producing good copper ore. The 90, west of No. 4, is worth 8%, per fathom. In the 102, west of No. 4, the lode is influenced by the splice, and from its present appearance we think it will quickly improve. I expect in a few days we shall be able to resume driving the 112, west of No. 4. The men in clearing the adit west to No. 4 are making good progress. We will send you our settling report on Monday next.

— H. T. Haley, Dec. 22: Stowford Mine: There is no change in the level driving east of No. 3 since our last. The stope in the bottom of the level, east of No. 2, sis improved, worth from 15 to 20 tons per fathom. The stope east of No. 1 is also improved since last report, worth now 15 tons per fathom. We have not reached the lode in the cross-cut, cast of No. 4, yet.

BEDFORD UNITED.—W. Phillipp, Dec. 23: We shall continue our drivages by the side of the lode for another week or so, consequently there will be no change to notice until the lodes in the different levels are taken down.

BOG.—W. T. Harris. J. Barkell, Dec. 22: The branch of ore in the bottom level, the 175, on the Whitestone lode, is extending westward, and is of the same value per fathom as reported last week. We are making fair progress in the 163, going west on the same lode, but are not yet through the twitch of poor ground. We are satisfied there is a good run of ove ground before us, and no time shall be lost in reaching it. We have also cleared this level west on the main lode, and shall at once begin to drive it torward. The goon dis very promising, and we believe there is not fa

Indivende to be placed from the shaft to the end, the shaft to the end, the shaft will act as a chinney; by this means the adit can be driven to the main lode.

CAEGYNON.—T. Hodge, Dec. 22: The 70, north of cross-cut, is driven 15 ft.; the last 3 ft. is in country rock, proving the lode to be 2 fms. wide; it is disordered and poor for mineral. The men are now placed to drive east on the course of the lode, where from the appearance of the end I hope to have some improvement soon. The winze in the bottom of the 70 east, 15 fms. east of cross-cut, is worth 15 cwts. of lead ore per fathom—a nice lode. The stope in the bottom of the 50 is worth 10 cwts. of lead per fathom; the ore ground here is short, but lengthens as we go down. Dressing is at a standstill, owing to the frost, but we are keeping our pumping-wheel going with difficulty. Up to now we have no hindrance below.

CALDBECK FELIS.—J. Poljakse, Dec. 17. The 20 end east is worth for copper 104, per fath. The lead course is only partly cut through on the south wall; so far as seen it is worth 204, per fathom. Since my last we have sunk a winze through from the 10 to the 20, which has opened a good piece of ground. As soon as possible we purpose sinking below the 20, and in order to do this effectively a plunger lift should be fixed in the junction shaft. We have also holed the winze from the 10 to the 20, on the north part of the lode, and we have now two stopes at this point producing both copper and lead, worth about 104, per fathom. The stope in the bottom of the 10 east is improved, and worth about 204, per fathom for lead and copper. The stope in bottom of the 10e, was of junction shaft, continues poor. In cross-cutting the lode in the 90 west no improvement has taken place. The Nos. 1, 2, and 3 stopes, in back of the 80, are worth on an average 15f. per fathom. We are looking better than at any former period during my management of the mine, and by prosecuting the either point recommended by me at starting, I have every confidence in opening a good mi

me time. COURT GRANGE.—E. Dunkin. Dec. 22: The underground department in the estern part of the mine continues as reported on the 17th inst. Both stopes in

severe frost and heavy falls of snow prevent us from dresssing lead. We are, therefroe, peparing a parcel of copper or for the market by the end of the year. If the weather should moderate we can easily get a parcel of lead ore ready, at the simultane, the state of the state of

as we go eastwards. At the end of this month we intend to resume driving of the 25, east of old engine-shaft, in order to get under the ore ground newly discovered in the 15, at which point, by all appearances, we shall find the lode much richer than in the 15. Winzes must be sunk from the addt level to the 15, and also from the 15 to the 25, to ventilate this part of the mine, as well as to open out large sections of stoping ground on this line course of ore as early as possible. No change worthy of notice in any other part of the mine. Nothing has been done in drawing and dressing this week, in consequence of the machinery and wheels being frozen up.

ozen up. EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Dec. 19: There is

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Dec. 19: There is nothing new to report since our last.

FRON VELLAN.—Capt. Harper, Dec. 23: The stope in the roof of the level, west of deep adit, continues much the same as for some time past, and is worth about 12 evets, per fathom for lead ore; the men are making good progress in stoping, and judging from the appearance of the ground and lode we believe that this run of lead will got brhough to the level above. In consequence of so much frost and snow for the past week we have done very little with the dressing, and at present I have stopped is altogether until there is a change. I have put two of the dressers inside to stope, so at present there are eight imen stoping until the weather changes, which I think will not be long, after which we shall go on with the dressing again with all speed.

until the weather changes, which a think will not be long, after which we brain go in with the dressing again with all apeed.

GORSEDD AND CELYN LEYEL.—William Edwards, Dec. 29: There is no shange to notice since my last report, but the discovery on the Gorsedd lode conjunct quite as good, and I think we may renture to say we shall have 10 or 12 tons for the next sale, which will be a favourable commencement for the new year.

GREEN HURTH.—William Vipond, Dec. 15: The end south from incline is set as four men to drive, 9 ft. high by 6 ft. wide, at 165s. per fathom; this is yielding

nt present 4 tons of ore for 1 fathom in length on the vein the size we are taking it, besides leaving strong brangled ore on the east side. The stope and side above and eithin this is set to four me, at 15p, per fathom, and will yield a tons of ore per fathom. The west side further back is set to two men, at 47p, et fathom, and will yield a tons of ore per fathom. The west side bove adit is set to two men, at 48p, et al. 1 fm. in length—the width we are working leaving good ore on both sides. The west side further back is set to two men, at 58p. dd.; tons of ore per fathom. The west side bove adit is set to two men, at 58p. dd.; tons of ore per fathom. The west side bove adit is set to two men, at 58p. dd.; tons of ore per fathom.

— Dee, 17r There is no change of any importance in any part of the mine this west. The ore producing workings are any jedding about a reported in settings. In the 15p west the lode is from 4 to 5 ft. wide, consisting of quarts, peach, mundie, and speek, with a little of both copper and tho rese. In the 15p west, easted Cocking's winze, the lode still looks well, and is worth fully 22p, per fathom. The look in the stops in the bottom of the 12p, west, so the north per fathom. The look in the stops in the bottom of the 12p west, so the north per fathom. The look in the stops in the bottom of the 12p west, on the north per fathom. The look in the stops in the bottom of the 12p west, on the north per fathom. The look in the stops in the bottom of the 12p west, on the north per fathom. The look in the stops in the bottom of the 12p west, on the north per fathom. The look in the stops in the bottom of the 12p west, on the north per fathom. The look of the 12p west the look is worth 15p, per fathom. In the 12p west, the look is worth 15p, per fathom. In the 12p west, the look is worth 15p, per fathom. In the 12p west, the look is worth 15p, per fathom, well as the per fathom. The west of the 12p west, and the look of the 12p west, and the look of the 12p west, and the look of the 12p west,

week of January.

NORTH LEVANT.—James Bennetts, H. Eddy, Dec. 11: Stennick Lode: The 100 west is worth 6. per fathom. The stopes in back are worth 6. per fathom. The stopes in back is worth 5. per fathom. The stopes in back is worth 5. per fathom. The stopes in back is worth 5. per fathom. The stope in back of the 70 west is worth 6. per fathom. The stope in back of the 70 west is worth 6. per fathom. The 50 west is worth 6. per fathom. The 50 west is worth 6. per fathom. The 50 west is worth 6. per fathom.—Wheal Down: The 55 east produces a little tin. The 60 east is worth 2. per fathom.—Wheal Down: The 55 east produces a little tin. The 50 east is producing a little tin. The worth 5. per fathom.—North Mexico Lode: The deep adit east produces saving work for tin. The same level west is worth 4. per fathom. During the past 16 weeks our North Stennick lode has opened up satisfactorily in the 85 fm. level west, and we are nearing the lode has opened up satisfactorily in the 50 in another 3 or 4 fms. driving. In accordance with our expectations at the last meeting the North Mexico Iode has been met with in the cross-cut at the deep adit. The end east produces saving work for tin, and the western end is opening up payable ground; here we have 40 fms. of high ground without water charges. Our sales of tin for the past 16 weeks have been much the same as we expected, and, judging from the present appearances, we think our returns for the coming 16 weeks will be sufficient to meet all the cost of the mine.

NORTH POOL.—W. C. Vivian, F. Clymo, Dec. 22: We find the branches of the lode extending to width of 9 ft., and all taking a direction going eastward towards the south or main wall. This latter, with a branch of lode accompanying it, is going about 17 to 20 morth of east, and the other parts of the lode to the north of it are going a little south of east, we shall not be long before reaching the point of amalgamation. We feel quite satisfied that we are on the course of the Old Main lode, and expect good results imm NORTH LEVANT.-James Bennetts, H. Eddy, Dec. 11: Stennick Lode: The

NORTH PRINCE PATRICK.—John Jones, Dec. 23: No change has taken place since writing my last report.

OLD BOTTLE HILL.—R. Unsworth, Dec. 23: In the 46, east of Rowe's shaft, the lode is 2 ft. wide, producing good saving work for copper. In the winze in the bottom of the 36 the lode is 3½ ft. wide, worth about 3′. per length of winze. In Jones's pitch in the bottom of the 12 the lode is 7 ft. wide; good stamping work. This pitch has greatly improved; the others are unaltered.

OLD TINCROFT CONSOLS.—J. Pope, Dec. 23: In the 20, west of Dymond's shaft, the lode is 15 in. wide, producing tinstone of low quality. In the 10 west the lode is 1 ft. wide, producing good average tinstone; the lode has improved in quality in the last 6 ft. driving. In the 30 west the lode is split in two parts, but is still producing average quality tinstone. The water has been in this level the past few days, but I expect will be dry by the end of the week. The adit is now all right.

all right.

OLD TREBURGETT.—W. Hancock, W. T. Bryent, Dec. 23: We hope to resume sinking the engine ehaft below the 90 the early part of next week. In the 90 south the lode is 4 ft. wide, producing capel, spar, white iron, and silver-lead, worth of the latter 64, per fathom. We have cut a large stream of water in this end, which is draining down the water fast in the level above; this we consider a good indication. All the other levels are much the same as to values per fathom as at our last setting day. No. 1 stope in back of the 80 south, and stope and winze in bottom of the 60, not looking so well in the latter place; we are sinking winze only now. We sampled to day two parcels of silver-lead ores; No. 1 computed 35 tons, No. 2 computed 35 tons, for sale on the 31st. inst.

PARBOLA.—W. R. Rutter, Dec. 29: The only hitherto developed feature in this

of the 60, not looking so well in the latter place; we are sinking winze only now. We sampled to day two parcels of silver-lead ores; No. 1 computed 35 tons, No. 2 computed 8 tons, for sale on the 31st. inst.

PARBOLA.—W. R. Rutter, Dec. 29: The only hitherto developed feature in this mine is a large elvan course, from 70 to 80 ft. in width, bearing several degrees to the north of west, and with an underlie southwards at about 2ft. in a fathom. This elvan is traversed in all directions by a wast number of branches and veins of tin ore, but 1 observe that these veins become more concentrated and larger when in close proximity to the cross-course which auis across the elvan at a point known is the Deck, a short distance west from the engine-shaft. The same characteristic presents itself also at other crossings, such as sparry branches or any other triing causing divisions in the rock. Away from these intersections the elvan course is less productive, and at present sould not be profitably worked with the prices now paid for tin; on the other hand, with an advance of only 15t. per ton for the ore, many large portions of the ground, in addition to the sections now being wrought, can be operated on advantageously. The bottom of the engine-shaft is 30 lathoms below adit. Three levels—the 10, 20, and 30—have been extended through the elvan course lengthwise both east and west of the shaft, averaging in extens from not occur 100 from the value; while the volume which traverse the elvan dyke longitudinally are corrupted more or less by the presence of iron and other lumprities, which cause them to be of lower produce. The loss of his grain and other lumprities, which cause them to be of lower produce. The loss produces the copper lote, has lately passed from a blue into a reddish kind of killas, as if it were nearing the lode. The western (or Tregoning's) shaft has been suak from a later the 10, through ground of considerable value, but a present it is full of water to within 6 ft. of the level. The 20, extending west t

down an increased quantity of water; the rock has become whiter and softer manifested with the shalf it will enable as to produce more titatone of a higher manifested with the shalf it will enable as to produce more titatone of a higher passing that a present. There are 15 include heat work at the produce more than 7 tons per month. Seeing that the water to be paused in the produce of the prod

the ore is dipping east, and going down before the forebreast; this speaks well for our deeper levels, but I shall be able to speak more definitely as to this when this stope has been extended a little further. I still believe the lode will be very productive east of shaft, where we were speaking about when you were last here.

ROMAN GRAVELS.—Arthur Waters, Dec. 24 (Telegram): There is no chango of note to report upon this week. The weather is very sovere.

SOUTH CONDURROW.—W. Rich, W. Williams, H. Abraham, Dec. 15: The ground is rather easier for driving in the 82, west of King's shaft; the lode is worth 180, per fathom, but it looks likely to improve. The 82 end, east of cross-out, has a promising appearance, and yields low-quality tinstone. We have begun to clear the 93 cross-out, south of King's shaft. The rise in the back of the 71 west is worth 200, per fathom. The lode in the 71 end west is improved, now worth 500, per further 180 end, west of cross-out, has a very kindly appearance, and carries a little tin and copper. The lode in the 60 end, east of King's shaft, is more porous than formerly, and yields a little tin. There is an increase of water in the 60 cross-out north, but the lode is not yet intersected.

SOUTH GREAT WORK.—3. I Reed, Dec. 23: In the flat-rod shaft, which is being sunk below the 35, the ground has become so soft that it required pretty much timber to make it secure; this change, however, I think is only temporary, as a similar floor was passed through in the 25. The lode in the 36 east is 3½ feet wide, and worth 77, per fm. The rise behind this end was communicated yester-day with the 25, so that now a thorough ventilation is effected the ground will be worked on tribute. The rise in the 25 is worth 100, per fathom. A winze below the 25 west is worth 80, per fathom. In the 20, west of the engine-shaft, the Great Work lode is 3 ft. wide, and worth 92 per fathom. The rises in the backs of the 10 and 20, against Woodstock shaft, are steadily progressing, yielding tinstiff for the stam

some occasionally to surface. We have been able to draw some tons of lead to surface since I wrote my last report, although under great disadvantage, as the level had fallen in in several places, and the air drift had been completely closed in some places, in consequence of the water; but I expect that before I write my next everything will be much the same as usual. The hard frost has impeded our washing operations greatly.

SOUTH ROMAN GRAVELS.—J. W. Powning, Dec. 23: Shelfield: The shaftmen have completed the tip-lodge below the 20, and are now stripping down the lode in the shaft referred to in last report, which is 6½ ft. wide, and worth about 10 cwts. of lead ore per fathom, with every appearance of improving as depth is attained; we shall resume sinking next week. The lode in the 20 east has improved, now worth 10 cwts, per fathom. There is no change calling for remark in the other points of operation. The mine, however, has improved since the general meeting. The machinery and pitwork are working well, and we have a fair stock of coals on the mine.

lode in the shaft referred to in last report, which is 6½ ft. wide, and work about 20 owns, of lead or oper fathom, with every appearance of improving as depth is statished; we shall resume sinking next week. The lode in the 20 cast all the other points of operation. The mind meeting. The machinery and pitwork are working well, and we have a fair stock of coals on the mine.

SOUTH WHEAL FRANCES.—A. T. James, J. James, J. Ople, Dec. 1½ esting Report: Fasco's shaft is now about 4 fathoms below the 178, and is being annk by nine men, at 27t. per fathom; the sumpmen have agreed to sink 10 fathoms at this process. The control of the

TYLLW X.D.—Capt. Fauli, Dec. 22: There is no particular change in any of our underground operations since last report. Frost and snow very severe, but we are able as yet to keep our wheel going all right.

WEST GREAT WORK.—S. J. Reed, Dec. 23: In driving west from Watson's shaft the Great North lode is 3 ft. wide, and worth 84. per fathorn; the men are engaged clearing west of said shaft, with the view of reaching some good tribute ground known to be standing in that direction. The new shaft, west of skip, has been commenced, and we think, if not prevented by water, that in the course of three or four months we shall be in a position to raise considerable quantities of tin from this point. The general future prospects are good, and when the pumping machinery is brought to bear upon the points in question, as well as those in the western portion of the mine, our returns of tin will considerably increase. The stamps are working well.

maninery is consistent with a second consistency of the will considerably increase. The stamps are working well.

WEST TANKERVILLE.—Arthur Waters, Dec. 24 (Telegram): The lode in the shaft below the 50 fm. level has improved this week. No. 2 caunter is worth 60 tons per fathom. Other points in the mine are without change.

WHEAL ALLEN.—J. Scoble, Dec. 22: There is no alteration in the lode worthy of notice. It is still looking very kindly, producing mundic and some fine lead in the flookan part of the lode. I think the lode will make a change shortly, as there is a crossing passing through it; we hope for the better.

WHEAL CREBOR.—J. Andrews, Dec. 23: The 120 fm. level east is poor. The lode in the stope in bottom of the 120 is worth 200, per fathom. The lode in the stope in back of the 120, cast of rise, has slightly fallen of in value, and is now worth about 250, per fathom. The lode in the eastern pass, is worth 122, per fathom. In the 108 east the lode is 181, wide, composed of quartz, capel, and mundic. In the 72 east the lode maintains its size and promising appearance, but is unproductive. The lode in the 48 tis 3 ft. wide, yielding a large quantity of mundic and good stones of copper ore—a very promising lode. The ore sold on Thursday last weighed over 179 tons, realisting with carriage 10330.

is 3 ft. wide, yielding a large quantity or intuitie and good school over 179 tons, realising with carriage 1933.

WHEAL GRENYILLE.—E. Hosking, W. Bennetts, Dec. 19: The lode in the new shaft sinking below the 160 is producing saving work; the men are making fair progress. The lode in the 150, east of cross-out, is worth 260, per fathom. The lode in the 150, west of cross-out, is worth 180, per fathom. The stope below the 140, east of wire, is worth 121, per fathom. The stope above the 140, east of cross-out, is worth 100, per fathom. The stope above the 140, east of cross-out, is worth 101, per fathom. The stope above the 140, east of cross-out, is worth 161, per fathom. The stope above the 150, east of cross-out, in worth 161, per fathom. The ground in the 130 cross-out north is much the same, but we are meeting with branches in the one at north shaft. The lode in the 130 east, on old tin lode, is 18 in. wide, yielding a little tin. The stope above the 120, west of rise, is worth shaft, is worth 30, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 122, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 122, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, west of rise, is worth 121, per fathom. The stope above the 120, per fathom. The stope above the 120, per fathom. The stope above the 120, per fath

have no change worthy of remark since our report on the 15th for the general meeting.

WHEAL MILWR.—W. Francis, Dec. 23: In driving south from West Meadow shaft another east and west joint has been intersected to day about 5 in. wide; but as there is not sufficient opened upon it, I will report more fully next week.

WHEAL PEEVOR.—A. T. James, Dec. 22: Tinstuff sold realised 57il. 18s. 6d., and a parcel of black tin will be sold on Thursday. Nothing new in the mine. Shaft and other bargains as last reported.

WHEAL UNY.—W. Rich, M. Rogers, W. Rich, jun., Dec. 19: The lode in the 160, west of engine-shaft, is unproductive. The 160 east is worth 8i. per fathom. The rise in back of the 160 west carries stones of tin. The 150, east of Goodinge's, is poor for tin. The 140, east of King's shaft, is worth 8i. per fathom. The 140, west of the incline, is worth 15i. per fathom. The 130 west is unproductive. The 130, east of King's, is worth 20i. per fathom. The 120 east is worth 15i. per fathom. The rise in the 120 west is worth 10i. per fathom. The 10 end east is worth 5i. per fathom. A rise in the back of this level is worth 10i. per fathom. A rise in the back of this level is worth 10i. per fathom. We are preparing to sink a winze in the 30 west: the lode is worth 7i. per fathom. We have to-day sold 15 tons 0 cwts. 3 qrs. 19 lbs. of tin.

CORNISH PUMPING ENGINES.—The number of pumping-engines reported for Nov. is 16. They have consumed 1697 tons of coal, and lifted 11,800,000 tons of water 10 fms. high. The average duty of the whole is, therefore, 46,900,000 lbs., lifted 1 ft. high, by the consumption of 112 lbs. of coal. The following engines have exceeded

sumption of 112 lbs. of coar.

the average duty:—

Orenver and Wheal Abraham—Sturt's 90 in. Millions 53-9

Dolcoath—85 in. 54-5

West Basset—Thomas's 60 in. 61-9

West Tolgus—Richard's 70 in. 47-3

West Chiverton—New 80 in. 51-2

West Wheal Scion—Harvey's 85 in. 59-7

OHIO CROWN LEAD AND SILVER MINE.—A correspondent writes—We have great pleasure in being able to state that the above mine has been disposed of by Mr. Thomas Bawden and Mr. James Moore, the liquidators of the company, to some influential Liverpool gentlemen, with a view to the formation of a new company, and from information we have received, the board of directors will contain the names of gentlemen of good position and standing, well known in Liverpool, and doubtless to many of our Manx friends. It is very satisfactory to learn that, since the late company ceased working, a splendid lode has been discovered in the sole of the 70 fm. or bottom level, and from good authority we have been informed that it is one of the most powerful lodes that as yet been seen in the mine, and judging from the remarks made by many of the shareholders, at their different meetings, this intelligence will be halled with delight. One thing is morally certain, that if

he late company could by any means have increased their capital they would never have been prevailed upon to have parted with their interest. However, those partles who were anxious that the mine should have a further trial will now have an opportunity to go in again with a far better prospect of success than they ever enjoyed before; it being well known to all interested in mining that the Manx Mines are never worked to a profitable issue until they have been sunk to a depth of at least 90 to 100 fms. That being the case, the new company will start under the most favourable auspices, having only some 20 or 30 fms. to sink before they reach that depth—Isle of Man Times.

FOREIGN MINES.

ST. JOHN DEL REY.—The directors have received the following elegram from Morro Velho, dated Blo, Dec. 22:—Produce, thirty days of Novemer, 33,500 oits.; yield, 9's oits. per ton: produce per diem, 1140 oits.; profit for he month of November, 7900/. Produce nine days December, 10,000 oits.; yield,

9 oits, per ton.

DON PEDRO.—Telegram from Rio, dated Dec. 22: Produce for the north (November) 4800 oits.; loss, 450%. Produce cleaned up (first division of becember) 1650 oits.

RICHMOND CONSOLIDATED.—Cablegram from the mine at Eureka

DON PEDRO.—Telegram from Kio, dated Dec. 22: Produce for the month (November) 4690 cits.; loss, 450!. Produce cleaned up (first division of December) 1650 cits.

RICHMOND CONSOLIDATED.—Cablegram from the mine at Eureka Nevada:—"Hall, London.—Week's run \$57,000."

COLORAO TERRIBLE LODE.—Dec. 24: The agent's advices to hand enclose freight note for 68th shipment, and state that the 68th would leave on Dec. 9. The agent gives the product of the mine for November as amounting to 255,000, and the expenses (not above) \$7000: profit for the month, \$18,000. The steamship City of Antwerp has arrived in Liverpool with shipments, Nos. 61, 62, and 63 on board. The sale of shipments Nos. 87, 58, 59, and 69 have been post-poned from the 29th inst. until Jan. 5, in consequence of the holidays.

CAPE COPPER.—The Corsair and Alton, with sutward cargoes and to load together about 800 tons of ore, have arrived at Port Nolloth: 735 tons of ore were sold by public ticked ng on the 22d inst., at an average of 17s, per unit, realising approximately 19,800.

NORTH AMERICA (Gold).—D. W. C. Morgan, Nov. 25: On the 20th inst. snow again commenced to fall, and on the 23rd the storm changed to rain, which continued up to last night. The snowfall amounted to about 2ft. here, but higher up on the mountain it must have been much greater. Washing was resumed on the evening of the 23rd inst., and yesterday morning a full head of water was running. We shall now have some water for washing and prospecting for some time, the company of the company

Registration of New Companies.

The following joint-stock companies have been duly registered:-

The following joint-stock companies have been duly registered:—
PLANET SILVER MINING.—This compeny proposes to acquire the Planet lode location, and the Gilman lode location in the Geneva mining district, Clear Creek County, Colorado Territory, U.S.A. It was registered on the 10th inst., with a capital of 20,000l., in 5l. shares, the first aubscriber being—*P. Le New Foster, East Hill, Wandsworth, barrister, 50; T. Reeks 14, Camden Hill Gardens, 20; W. W. Smyth, 92, Inverness-terrace, 50; G. Todd, East Hill Lodge, Wandgworth, 1; *J. W. Wilson, The Beeches, Wandsworth, olivengineer, 1: Ernest Le New Foster, Georgetown, Colorado, mining engineer, 2; James Teal, East Hill, Wandsworth, mining engineer, 2. The number of directors to be not less than three. Qualification, 40 shares. First directors to be those subscribers whose names are marked with an asterisk, and Sir Frederick M. Williams, Bart, M.P. General meeting to determine remuneration. An agreement of the 2nd inst. regulates the purchase; the consideration being 13,000l., of which sum 10,000l. is to be paid with 110 2001.

paid shares.

ANGLO-RUSSIAN CARRYING COMPANY (Limited).—Capital 10,000l.
in 10l. shares, to act as a carrying company in Russia. The subscribers (who take
one share each) are—R. Davie, 65, St. Mary Axe; Alphonse Senecke, 13, Philpot
lane; E. H. Tyler, 3, Lombard-street; J. Davie, 65, St. Mary Axe;
Whiffin, 19, Coleman-street; J. R. Turnbull, Mark-lane; A. E. Edwards, 65, St.
Mary Axe.

lane; E. H. Tyler, 3, Lomoard-street, J. R. Turnbull, Mark-lane; A. E. Edwards, 65, St. Mary Axe.

COUNTY GENERAL CREDIT, DISCOUNT, AND INVESTMENT COMPANY (Limited).—Capital 75,000%, in 10% shares. To earry on the general business of a loan and discount company. The subscribers (who take one share each) are—T. W. Jenkins, York-street, Manchester; R. Poole, Preston; R. Robinson, Preston; H. R. Linell, Preston; B. Berry, Preston; C. Greenall, Preston; P. C. Presse Preston.

BARLOW AND JONES (Limited).—Capital 500,000l., in 10l. shares Darklow And Sonks (Infinited).—Capital 300,000., in 105 states to acquire the businesses of Messrs. Barlow and Jones and Thomas Burlow and Co., cotton-spinners, &c. The subscribers are—J. Barlow, Greenthorne, Lancashire, 5000; T. Jones, Boudon, Cheshire, 5000; J. R. Barlow, Greenthorne, 2500; R. Smith, Bolton, 300; J. Hoyle, Bolton, 200; J. Allsop, 2, Portland street, Manchester, 2009; and R. Wright, Manchester.

LOSTOCK HALL COTTON-SPINNING COMPANY (Limited).—Capital

cenester, 2000; and K. Wright, Manchester.

LOSTOCK HALL COTTON-SPINNING COMPANY (Limited).—Capital 70,000l., in 10l. shares. To carry on business as cotton-spinners. The subscribers are—J. R. Simpson, Deane, Bolton, 200; J. Woods, Preston, 200; J. Barlow, Preston, 200; L. Fish, Preston, 200; W. Therlay, Walton-le Dale, 200; G. W. Bardsley, Bolton, 25; Y. Ramines Creedale, Heaton, 100.

ST. PATRICK LEAD MINE (Limited).—Capital 10,060l., in 1l. shares. To acquire land for mining purposes in the parish of Halkin, Flint. The subscribers (who take one share each) are—W. T. Huzley, 36, Gracechurch-street; A. Miller, 52, Coal Exchange; W. C. Miller, 52, Coal Exchange; W. T. Huxley, jun., 57, Hacket-road, Brixton; A. M. Molina, 123, Garsford-street, Kentish Town; H., Duncan, 23, Bloomfield-street; and G. C. B. Duncan, 2, Bloomfield street.

JOHN AMBLER AND SONS (Limited).—Capital 100,000l., in 10l. shares. To acquire the business of the firm of John Ambler and Sons, of Ludderden, Yorkshire. The subscribers are—J. Ambler, Ludderden, 100; W. Ambler, Ludderden, 100; J. A. Pasker, Heaver Bridge, 100; J. Baldwin, Ludderden, 1, GREAT GRIMSBY SHIPBUILDING COMPANY (Limited).—Capital 50,000l., in 5l. shares. To carry on business as shipbullders, &c. The subscribers (who are all of Great Grimsby, and take 10 shares each) are—H. Smethurst, jun., H. Mudd, J. Mursell, J. O. Hawke, J. Thorpe, H. Smethurst, H. Knott, and Alleu Hamnah.

SOUTHSEA FLORAL HALL AND AQUARIUM COMPANY (Limited).

Alleu Hannah.

SOUTHSEA FLORAL HALL AND AQUARIUM COMPANY (Limited).—
Capital 80,000/., in 5/., shares. The subscribers to this company (who take one share each) are—J. G. Osborne, 118, Cannon-street; J. Allen, 6, Studeley-road, Clapham; G. Pressey, Suffolk-street, Essex-road; T. A. Masey, North Cheam; G. P. Moore, Teddington; J. Burbidge, 9, Mount Pleasant-road, Hornsey.

BROCKHAM BRICK COMPANY (Limited).—Capital 20,000/., in 5/.

Burrey.

DEBRY MILLS COTTON-SPINNING AND MANUFACTURING COMPANY (Limited).—Capital 50,000%, in 10% shares. To carry on business as cottonspinners at Heywood, Laucashire. The subscribers are—R. Todd, Heywood, 10;
W. Todd, Heywood, 2; J. E. Aked, Heywood, 10; R. Wolstenholme, Heywood,
10; J. Rudman, Rochdale, 5; G. Ormerod, Heywood, 50; and J. Hadfield, Roch-

10; J. Rudman, Roondale, 5; G. Ormerou, Reywood, 6c, and 5c. Amount along the American Company (Limited).—Capital 30,000/., in 10/. shares. To carry on business as ironfounders, &c., at Nottingham. The subscribers (who take one share each) are—F. J. Baker, Brentwood; J. R. Manning, St. Norman's, Forest Hill; A. Barciay, Westfield, Surbiton; A. Odling, Lennard-road, Croydon; C. Odling, Nottingham; L. Diespecker, Colebrook-row, N. ESTATES ASSOCIATION (Limited).—Capital 50,000k, in 100k, shares. To acquire land for building and other purposes. The subscribers are—W. T. Makins, 34, Holland Park, W., 50; H. F. Makins, S. Palace Gate, Kensington, 50; George Smith, West Park, Lewisham Hill, 10; W. H. Simpson, 8, Redeliffe Gardens, 10; R. B. Looker, 31, Lombard-street, 10; Lightly Simpson, 50, Gowerstreet, 20; R. Walker, 10a, King's Arms-yard, 5.

MICA MINES IN NORTH CAROLINA.—Among the most interesting less thus far discovered of the investerious race of mound builders, who occupied the MICA MINES IN NORTH CAROLINA.—Among the most interesting relies thus far discovered of the mysterious race of mound builders, who occupied the Mississippi valley previous to the advent of the more barbarous indians, are numerous ornaments of mica. Like the weapons of hammered copper from Lake Superior, the shells from the Gulf of Mexico, the implements of Mexican stone and of iron ore from Missouri, these plates, of a mineral not found in the Great Valley, give a plain hint of the extensive commercial relations of those pre-historic people. The mica was evidently mined in Western North Carolina where their long-abandoned workings have lately been re-opened, and made the scene of a very

modern enterprise. Seven years or so ago a prominent citizen of North Carolina set some labourers to work in one of the ancient mines, in search of silver, supposing that metal to have been the one sought for by the original miners. A considerable quantity of mics was thrown out, but its value was not recognised until a sample, which had been sent to Knoxvilleas a curiosty, was seen by a Mr. Clapp, who followed up the clue and leased the mine for its mice, and revived an industry which has added immensely to the wealth of the region. The mine is known as Blaylock's, about 12 miles from Bakersville, the county seat of Mitchell's county. Four or five other ancient mines have since been re-opened in the same neighbourhood, besides many new ones in the same and adjoining counties. Mines have also been opened in Yancy, Heywood, Burcom, McDowell, and other counties. The business is still in its infancy, and the methods of mining are exceedingly primitive; yet the amount of mine produced is more than enough to supply the large and growing demand for the article. Dealers and manufacturers supply the mines with patterns in size from 2 inches to 8 inches up to 18 inches square, ac cording to which the mica is prepared for market. The dark or brandy-coloured mica brings the best price. Associated with the mica is an abundance of decomposed snow-white felspar, which will no doubt be utilised in time for the manufacture of porcelain.—Scientific American.

COAL SHALE.—Mr. J. Bell, of Wishaw, has patented some improvements in distilling coal shale for the production of oil and gas, and in the apparatus employed therein. The features of novelty which constitute this invention are the employment of a tubular retort fixed horizontally or at an angle, and provided with an interior revolving shaft, on which screw and flat blades are alternately placed, the latter perforated for the passage of the gases, whereby the charge is moved forwards and turned repeatedly over; and the arrangement of apparatus for desi'rering the spent shale from the retort; also the arrangement of retorts for producing illuminating gas.

for deal', rering the spent shale from the retort; also the arrangement of retorts for producing illuminating gas.

PHOSPHATES OF LIME.—Mr. B. TANNER, F.C.S., of North Strand, Dublin, has patented some improvements in the treatment of phosphates of lime, and in the production of valuable products thereby. The invention consists in certain improvements in the treatment of phosphates of lime, whereby valuable products are obtained in an economical manner, and of such character and composition as may be desired. Any of the ordinary forms of phosphate of lime or or are heated with hydrochloric acid and solutions thereof obtained. The solutions of are heated with hydrochloric acid and solutions thereof obtained. The solutions obtained as before mentioned are treated with sulphuric acid in such quantity as to combine with the whole or any part of the lime or calcium in the solution, whereby the latter is precipitated in the form of sulphate of lime and then separated by known means. The liquid portion is again employed as a solvent for the phosphate of lime, and the treatment with sulphuric acid repeated, the lime or calcium removed, and the liquid portion again employed as a solvent for phosphate of lime, or solvent of the phosphate of lime, and the treatment with sulphuric acid repeated, the lime of collime, the resulting solution being evaporated in furnaces. The relative proportions of lime or calcium and phosphoric acid having been ascertained, sulphuric acid is added to the mass, so as to leave approximately for every 11 parts of phosphoric acid 28 parts of lime or 29 parts of calcium. The dry product is useful as a manure. Instead of employing sulphuric acid, as before mentioned, either of the alkalies or their salts in conjunction with sulphuric acid may be employed. The dry product will contain, in addition to the phosphate of lime, salts of the alkalics or their salts in conjunction with sulphuric acid may be employed. The dry product will contain, in addition to the phosphate of lime, salts of the alkalic

composition of the products are regulated by the proportions of the phosphate of lime, and the acids, alkalies, and alkaline salts.

TUBULAR TUNNELS.—Mr. J. H. GREATHEAD, of Storey's Gate, Westminster, has patented some improvements in constructing tubular tunnels or subways. A shield, having a cylindrical flange projecting backwards, so as to overlap the forward part of the tunnel casing, has through it holes with stuffing boxes and spherical joints, through which tools are protruded to disintegrate the soil in front, and has also through it pipes for ejecting water or air under pressure, and other pipes, by which the disintegrated material suspended in water, or in case of dry sand, in air, is forced back into receptacles behind the shield. The shield front may also be made with doors or manholes, or in cells or compartments, and may be provided with an air chamber behind, supplied with air under a sufficient pressure to exclude water from the cells during work. As the space in front of the shield is cleared it is forced forwards by screw jacks or hydraulic presses abutting on the tunnel casing behind, and the casing is extended within the flange of the shield. The casing may be of iron or other metal in the voussoir segments bolted together, or of iron frames filed in with cement or concrete locks previously moulded and built in their places with temporary clamps to secure them. The joints may be made tight by leather or other yielding material, which may serve also to make a tight fit to the flange of the shield. The space left by the withdrawal of this flange is filled with liquid cement injected through holes in the tunnel casing.

COPPER ORES.
Sampled December 2, and sold at Swanser

Mines. Tons	. Produce. P	rice.	Mines. Tons. Produce.	Price.
Cane Ore 59	3534 £30	6 0	Cape Ore 69 3958 £	33 2 0
ditto 58	3534 30	6 0	Berehaven142 834	6 16 0
ditto 58	3534 30	6 0	Union Ore 76 1656	13 15 6
ditto 58	3534 30	10 0	ditto 34 1634	
ditto 69	245/8 20	13 6	Bampfylde 45 61/2	
ditto 69		13 6	ditto 16 201/	16 19 6
ditto 68	2456 20	10 0	ditto 5 6	4 12 0
ditto 62	2476 20	12 0	Concordia 11 211/	17 15 0
ditto 42	24 56 20	14 6	Lisbon Ore 10 9½	7 16 0
ditto 70	395% 33	14 0	ditto 5 43/8	3 6 0
ditto 70	395/8 33	7 0		
	TO	TAL PE	RODUCE.	
Cana Ora	752 £20,443	14 0 1	Bampfylde 66 65	42 2 0
Rerehaven	142 965	12 0	Concordia Ore 11 1	95 5 0
Union Ore	110 1,515	5 0	Lisbon Ore 15	94 10 0

COMPANIES BY WHOM T				Am		
Copper Miners' Company						
P. Grenfell and Sons	*************	138		2,853	- 3	0
Nevill, Druce, and Co		117	*******	3.980	4	0
Vivian and Sons	************	440	*******	8,402	2	0
Williams, Foster, and Co	************	110		1,515	5	0
Mason and Elkington	************	76	********	1,567	Ð	0
Sweetland, Tuttle, and Co		134		3,619		0
Capper Pass and Son	*************	11	********	195	5	0

..... 1096 £23,756 8 0 NO SALE on Jan. 5. TOTALS AND AVERAGES.

21 cwts. Produce. Price. Per unit. Standard.

Whole sale ... 1095 ... 25% £21 13 6 16s, 11d... £105 5 6

SALES OF COPPER ORES. Sampled Dec. 2, and sold at the Royal Hotel, Truro, Dec. 17.

Tons. Mines. Wheal Crebor...... Mines.
ith Caradon
ditto
ditto
ditto ditto
West Maria & Fortescue
ditto East Caradon Gar ditto ditto ditto ditto Bedford United Down ditto Duchy Great Consols...

	Wheal Crebor 60 3 1	2 6	New Crowndale	10 2	11	0
1	TOTA	L	PRODUCE.			
,	South Caradou 540 £2873 1 Marke Valley 429 1494 1 Hingston Down 260 702 4 Glasgow Caradon 245 1378 1 Wheal Crebor 155 863 1 West Maria 56 827 1	5 6 6 6 6 6 6 6 6	Phœnix	336 316 445 258 73	13 5 13 16	0 0 0
٠	East Caradon 130 1004 16 Gawton 127 251 15		Belstone	115	7 10	0
	Average standard	0482	Quantity of fine copper	163 tons 5		

ALIIIO III O		
LAST SALE.—Average standard£114 6 0 Average production Standard of corresponding sale last month, £117 19 0—Production	ce e, 6	1/4.
COMPANIES BY WHOM THE ORES WERE PURCHAS	ED.	
Names. Tons. Am	oun	t.
Vivian and Sons 573 £2738	1	R
Grenfell and Sons	0	3
Grentell and Sons	10	0
Novill Druge and Co	ASS	U
Williams, Foster, and Co 478% 2049	- 2	3
Mason and Elkington 1669	2	0
Charles Lambert 111 398	18	0
	5	0
		0
Sweetland, Tuttle, and Co 2001/2 640	A	0
	-	_
Total 2482 £11,512	0	0

Copper Ores for sale at Tabb's Hotel, Redruth, on Thursday next.—Mines parcels—West Wheal Tolgus 237—East Pool 181—Carn Brea 176—Creaver Wheal Abraham 150—New Pembroke 115—West Wheal Seton 113—East Bass—South Wheal Crefty 80—Cathedral 30—South Carn Brea 27—New Dokoath South Tolcarne 8—Total 1213 tons.

With this week's Journal a SUPPLEMENTAL SHEET is given, With this week's Journal a SUPPLEMENTAL SHEET 18 given, which contains—Original Correspondence:—The Nascent Copper Process—Air as Fuel—What is Electricity (R. J. Crickmer)—Cape Copper Mining Company—Mining in Wales, Parish of Lianarmon—Dismissal of Mine Agents —The Last Retrospective View of Mining generally in 1874 (Absalom Francis)—Legitimate Mining—Capel Cureg Quarry (Samuel Clift); West Goginan Lead Mine—Exchequer Gold and Silver Mining Company. Foreign Mining and Metallurgy; Australian Mines; Official Report on Explosive Substances—No. II.; Manufacture of White Lead, Copper Pyrites, Patent Matters, &c.

The Mining Market: Brices of Metals, Ores, &c.

METAL MARKET-LONDON, DEC. 24, 1874.

AL LULE	in matter and and and and and
COPPER. & s. d. & s. d.	Row. per ton. & s. d. & s. d. Bars Welsh, in London 8 17 6-9 0 0
Best selectedp. ton 98 0 0-97 0 0	
Tough cake and tile. 93 0 0- 95 0 0	
Bheathing & sheets 98 0 0-	
Bolts101 0 0-102 0 0	7) 1000000 10000000000000000000000000000
Bottoms100 0 0-102 0 0	
Old 87 0 0- 90 0 0	Hoops,, ditto12 0 0
Australian, Wallaroo 95 10 0	
ditto other brands 93 10 0- 94 0 0	
Chili bars, g.o.b 88 10 0-84 0 0	
Wireper lb. 0 1 1	Pig No. 1, in Wales 5 0 0-6 10 0
Tubes 0 1 2- 0 1 3	Refined metal, ditto 7 0 0-8 0 0
BRASS. per lb.	Bars, common, ditto 8 0 0-8 5 0
Sheets	Do., merchant, f.o.b. } 8 10 0-
BIOCES	in Tyne or Tees)
Wire	Do., railway, in Wales 7 0 0-7 5 0
	Do., Swed. in London.16 0 0-17 0 0
Yellow metal sheathing 81/d9d.	To arrive17 5 0
Sheets 8½d8¾d.	Pig. No. 1, in Clyde 4 7 0-5 12 6
SPELTER. per ton.	Do., f.o.b. Tyne or Tees 4 0 0-4 5 0
Foreign on the spot 23 15 0-24 0 0	Do., Nos. 3, 4, f.o.b., do. 3 10 0-4 0 0
00 18 0 09 17 4	Railway chairs 5 0 0- 5 5 0
,,	spikes12 10 0-14 0 0
ZINC. 90 10 0-31 0 0	Indian Charcoal Pigs,
In sheets 30 10 0-31 0 0	in London, p. ton 8 0 0-10 0 0
TIN.	
English blocks £ 98 0 0- 99 0 0	STEEL. per ton.
Do., bars (in brls.) 99 0 0-100 0 0	Swed., in kegs (rolled) — — — — — — — — — — — — — — — — — — —
Do., refined 101 0 0-102 0 0	
Banca 100 0 0-101 0 0	Ditto, in faggots20 10 0
Straits 94 0 0	English, spring19 0 0-24 0 0
Australian 92 0 0-93 0 0	LEAD. per ton.
	English Pig, com 24 0 0
	Ditto, L.B24 0 0
Committee to dans the	Ditto, W.B24 10 0
	Ditto, sheet25 10 0
IO Do., 2d quality 1 16 0-1 17 0	Ditto, red lead25 0 0
IX Do., 2d quality 2 2 0-2 3 0	Ditto, white30 0 0-32 0 0
	Ditto, patent shot26 10 0-26 15 0
LA DILLO	Spanish23 5 0-23 10 0
Canada plates, p. ton 18 10 0-19 0 0	
Ditto, at works 18 0 0-18 10 0	QUICKSILVER (p. bot.) 24 0 0

* At the works, 1s. to 1s. 6d. per ton less. † Add 6s. for each X. Terne-plates 2s. per box below tin-plates of similar brand.

REMARKS.—As the year draws towards a close less disposition is EXEMARKS.—As the year draws towards a close less disposition is evinced to enter into any fresh business. Business men are rather engaged in reviewing the past—taking stock, as it were of the year's transactions and laying plans for the future—than acting in the present. The present position of the Money Market tends to restrict operations generally, and more especially those of a speculative character. So much is this the case that there is barely any speculation at all in any of the markets; but the expectation of easier rates has been gaining ground, and the Bank ratures all ineasier rates has been gaining ground, and the Bank returns all indicate that the pressure of the last few weeks is passing away. If this be so, and money becomes plentiful at the turn of the year, it would seem to be more than probable that ere long renewed activity may characterise our markets, and business once more flow in the overlinear gapment. ordinary channels.

ordinary channels.

COPPER.—Owing to the announcement of heavy charters which for the month of November are estimated at 5000 tons, and 2700 tons for the first half of December, the market has assumed a quiet appearance, and prices of Chili bars have drooped to 83t. to 84t. Sellers are not to be found, as a rule, below 84t., and that in very small quantities. Although charters are heavy, yet being chiefly by sailing vessels, the arrivals may be still distant, and the expected supplies will not be forth coming for some months; consequently, stocks are likely to be light, and any extra demand would cause a diminution, and while this is the case prices will not probably recede, but may possibly advance.

stocks are likely to be light, and any extra demand would cause a diminution, and while this is the case prices will not probably recede, but may possibly advance.

IRON.—True to the character which the trade has assumed now for so leng a time, the report at the close of the year continues to be very unsatisfactory. In the North of England the demand is very limited, and prices have still a downward tendency, and there is still a difference of opinion expressed as to whether the bottom of the market has been reached. The approaching holiday season is always a quiet time in the iron as well as some other trades; but though the amount of actual business transacted be limited, it may be that quotations may not suffer, as producers appear to be under the impression that a demand may shortly arise which will suffice to sustain the market. The quotations for pig-iron are No. 1, 68s.; No. 3, 62s, 3d.; No. 4, 57s. At the present moment shipments are being made as "wind and weather permit" to the Continent, and the deliveries to Scotland continue to be kept up on a large scale. Owing the severity of the late gales shipments have been deferred, but during the last week the weather has moderated, and deliveries have been going on again. Enquiries for finished iron have been floating about, more particularly for rails, but at such prices as cannot be accepted by makers with the existing rate of wages, and the price of raw material as now obtainable; still the fact that there are enquiries afloat is of itself encouraging, and that some of these enquiries have culminated in orders is still more satisfactory. Rails are queted 7l. 10s. for ordinary sections and ship plates, 9l. 5s.; merchants bars, 8l. 10s.

Meek ending Dec. 20, 1875.

Meek ending Dec. 20, 1875.

Total decrease since Dec. 25, 1878.

Total decrease since Dec. 26, 1878.

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Total decrease since Dec. 26, 1878.

ELTER.—There have been sales at our ports of Silesian at

SPELTER.—There have been sales at our ports of Shesian at 23t. 17s. 6d., and 24t. is asked for spot parcels.

QUICKSILVER.—24t. has been accepted. Market very quiet.

TIN.—Priess are improving, and a little speculative movement is observable: 94t. 10s. has been paid for Straits, and 93t. for Austra-

observable: 5th, 10s, has been parallian, cash terms.

Tin-Plates.—The market is firm, and, as orders are coming in pretty fast, buyers should not defer making their purchases, or they may have to pay higher prices. IC coke, 27s, 6d.

Messrs. James and Shakspears—Copper: At the Swansea Ticketing, on the 22nd inst., 1069 tons of ore (chiefly Cape), averaging 25% per cent. produce, fetched an average price of 16s. 11d. per unit. By private contract no sales have been reported: importers of Chill regular refused 16s. 9d. per unit for some parcels to arrive, but although they are now willing to sell at a reduction thereon, smelters do not seem inclined to operate, nuless at comparatively low figures. The Chill charters for the last haif of November, and the first fortnight of the current month, have come to hand since we last wrote, being advised as 2600 and 2700 tons respectively: of which 2400 in bars in ingots, 2700 is ores and regulus for England, 100 in bars for France, 100 tons pure for the United States. The bulk of this quantity is, no doubt, coming by sailing vessel, and as, under these circumstances, a large proportion must be stuff to be shipped some time shead, we believe the anticipations expressed in our circular of the 11th inst. will soon be realised; this alteration in the mode of shipment will reduce, however, the prices of forward metal to a level with those obtainable for spot parcels, and may eventually cause values of the latter to rule a trille higher, as has been for some time past the case with its. Influenced by the news alluded to above, bars have receded during the week 30s. per ton, but the quantity on spot being only one-half of what was available at the beginning of the year, it is rather easier to effect purchases to arrive than to secure metal now in stock at the same reduction. Australian sorts still remain neglected, and the demand is below the average; the sales of these descriptions has been materially affected by the import of Lake Superior ingot, of which about 4000 tons have been imported into Europe during the past six months, the bulk of which is now consumed. Second-hand parcels of English are yet to be had below the official quotations, but smelters continue to ask full rates, and are apparently confid Messrs. James and Shakspeare—Copper: At the Swansea Ticket-

ds, like the Torrens, do come fully up to the standard of fine.

Makers are very full of orders, and unable to undertake orders for

PLATES: Makers are very full of orders, and unable to undertake orders for prompt delivery.

Messers. Vivian, Younger, and Bond—Copper: On the 19th inst. advices were received from Chili that the charters for the first half of December were equal to 2700 tons fine copper, and prices became first half of December were equal to 2700 tons fine copper, and prices became firmer until the 22nd, when the usual cablegram with Chili advices was received, announcing the charters for all November as 5000 tons of fine copper, being 2600 tons for the second half of that month, instead of 1300 tons, as had been exported. These very large charters from Chili during the last three months begin to attract considerable attention, and seem to point to an accumulation of stocks on that side of somewhat alarming proportions. Since early in October, when they should have heard in Chili of the price of about 501, the total charters (say) for three months amount to about 14,500 tons. It is thought by some that these charters may be made for shipment over an unusually long time, but as the actual shipments in November were advised as 5000 tons, it cannot be said this view is confirmed. Beyond some speculative purchases, the trade for the week has been exceedingly dull. In furnace stuff, 1090 tons of ore were sold at the Swansea ticketing yesterday at the average price of 16s. 11d. for an average produce of 25% per cent. Unmanufactured copper continues very irregular in price, and the demand is only moderate. Manufactured also remains inactive. Yellow metal is obtainable at rather lower prices, and there is also very little demand for export. This There has been a gradual improvement in the price of this metal since our Tix. There has been a gradual improvement in the price of this metal since our Tix. There has been a gradual improvement in the price of this metal since our Tix. There has been a gradual improvement in the price of this metal since our the latter. Yesterday a large lot, about 150 tons, was purchased, Straits at 93, to 9

Messrs. French and Smith—COPPER is flatter, owing to a corrected elegram of the charters for November giving the quantity as 5000 tons for the tonth. The charters for the first half of December are 2700 tons; the price, after seeding to 83%, is rather firmer this afternoon.—Tin: A good business is doing a foreign at slightly improved prices.

English is steady.

Messrs. Pixley and Abell—Gold: The arrivals of have been large Messrs. Pixley and Abell—Gold: The arrivals of have been large size our last circular: they comprise—592,000/. from New York, 30,000/. from the Brazils, and 44,000/. from New Zealand: total, 686,000/. The demand for export continues very quiet, and although only a portion of the above amount has come to London/the Bank has received 389,000/., and further sums will undoubtedly follow. 10,000/., in sovereigns, has been withdrawn for Lisbon.—Silver: The market continues tolerably firm, at 57½/d. per oz., at which rate the amounts to hand this week have been taken. The arrivals comprise 62,000/. from the Brazils, and 65,000/. from New York. The Peninsular and Oriental steamer takes about 27,000/. to Bombay.—Mexican Dollars: Those on the market, brought by the French and West India steamers, have been sold at 56d. per oz., showing a further deline in price.

In the early part of the week the MINING SHARE MARKET was rather more active for tin mines, but the approach of the Christmas holidays seems to have put a stop to business, and there is very little

In the early part of the week the MINING SHARE MARKET was rather more active for tin mines, but the approach of the Christmas holidays seems to have put a stop to business, and there is very little new or interesting to report upon.

The mines in chief demand were Carn Brea, Dolcoath, Wheal Grenville, West Tolgus, South Roman Gravels, Tankerville; and business has also been transacted in a few others, such as Parys Mountain, Wheal Peevor, Pennerley, Penstruthal, Wheal Crebor, Van Consols, South Condurrow, Bog, and a few others.

Wheal Peevor shares have been lower, and leave off 5 to 5½; the tinstone (300 tons) realised 571l. Bog, 5s. to 7s. 6d. Carn Brea shares are better, at 55 to 57½. Cook's Kitchen, 8 to 9; Devon Great Consols, 2½ to 2½; East Pool, 13 to 14; Great Laxey, 10½ to 11; Hingston Down, ½ to 1½; Marke Valley, 1½ to 1½. Dolcoaths advanced to 49, 50 ex div.; at the meeting, held on Monday, a dividend of 12s. 6d. per share was declared. The accounts showed costs for three months up to Nov. 23, 13,466k; copper sold, 296k; tin ore (291 tons), 16,870k. The engine-shaft is now down 10½ fms. under the 314; lode worth 100k, per fathom; the 314 east 100k, per fathom. The mine is looking well, and if tin rises in price increased profits will be made. Old Treburgett preference, 12s. 6d. to 15s.; West Tolgus, 72½ to 75; at the meeting, held in Cornwall, a dividend of 1k. 5s. per share was declared. The accounts showed costs for two months, 3250k; copper ores sold (607 tons), 3900k. profit, 656k. The mine is looking well, one point—a rise—worth 100k per fathom; another, 80k; another, 50k; and three stopes in back of the 85 worth 112k per fathom; the 125 end is worth 30k per fathom. The return for the next two months amounts to 4102k, 5s. 8d. and will have a larger profit than shown at the present. Parys Mountain, 8s. to 10s.; Pennerley, 1½ to 1½.

Crener and Abraham, ½ to ½; the expenditure here (including 30,000k, purchase money and 20,000k for unwatering the mine) has been 143,520k, and the returns of tin and

call of 1s. 6d. per share was made. The accounts showed a loss of 260t.0s. 1d. on two months' working, and a debit balance of 331t.7s. 11d. The chief points of interest in the mine are in driving for the Silver lode and cutting ore in the 77, under where, in the 65, there was a course of ore 30 fathoms long. Roman Gravels 12 to 12½; Rookhope Valley, 10s. to 15s. South Roman Gravels shares have advanced to 17s. 6d., 22s. 6d.; the mine has further improved in the 20 east, which is yielding splendid lead. The lode in the shaft also look wells. South Carn Brea, 1 to 1½; South Condurrow, 4½ to 5; South Crofty, 14 to 16; South Frances, 13 to 15; Tankerville, 8 to 8½; Tincroft, 29 to 30; Van, 20 to 22½; Van Consols, 2 to 2½; West Chiverton, 1 to 1½; West Esgair Lle, 2 to 2½. Wheal Crebor, 15s. to 20s.; ore sold last week weighed off 179 tons, realised 1033. 16s. 8d. Wheal Grenville, 5 to 5½; Wheal Kitty (St. Agnes), 4½ to 5. Wheal Uny, 3½ to 3¾.

Wheal Jane, 5 to 6; at the meeting, on Tuesday, the mine rentered the Dividend List. It will be recollected that in March last the committee suggested to "suspend for a time," for whilst it costs us 65l. per ton to make our tin marketable, the smelters will only give 47l. or 48l. for it. The interests of the adventurers, therefore, cannot be advanced by continuing to work the mine at a certain loss, but while by suspending for a time we may be able to tide over these disastrous times without loss, and not remotely find coals, iron, and labour very much reduced in value, so that we shall have a double chance in a lower rate of materials, and a higher value for our tin. The price of tin having soon rallied, the suggestion, hap-

a double chance in a lower rate of materials, and a higher value for our tin. The price of tin having soon rallied, the suggestion, happily, was not acted on. A resolution was also passed authorising the purser to overdraw the banking account 3000%, subsequently increased to 5000%, that the tin market might be stocked for a time. The profit on the three months' working was 1445%. Is. Id., and a dividend of 1%, per share was declared. The agents' report was very satisfactory

very saustactory. Birdseye Creek, $2\frac{3}{5}$ to $2\frac{4}{5}$; Cedar Creek, $1\frac{3}{5}$ to $1\frac{4}{5}$; Chontales, 10s. to 12s, 6d.; Eberhardt and Aurora, $4\frac{1}{5}$ to 5; Emma, 1 to $1\frac{1}{4}$; Flagstaff, $1\frac{3}{5}$ to 2; Frontino and Bolivia, 6s, to 8s.; Richmond, $6\frac{5}{5}$ to $6\frac{1}{5}$; Sweetland Creek, $2\frac{5}{8}$ to $2\frac{7}{8}$; Tecoma, $\frac{5}{8}$ to $\frac{7}{8}$.

The Market for Mine Shares on the Stock Exchange during the reserved has not presented any noteworthy feature. The public above the public above the reserved has not presented any noteworthy feature. The Market for Mine Shares on the Stock Exchange during the week has not presented any noteworthy feature. The public abstaining from entering into new transactions at the close of the year, and the dealers chiefly occupied in arranging outstanding engagements, the business of the week has been upon a comparatively limited scale. The general tone of firmness, however, has been fairly upper the continuous control of the scale of th supported, and the leading indications point to a marked revival of business upon the turn of the year. With the exception of copper, business upon the turn of the year. With the exception of copper, which has further declined, and still presents a drooping tendency, the position and prospects of the metal market are in every respect most encouraging, and it is believed that at least current values will be maintained.

American mines continue neglected, and scarcely any transaction

Since Aug. 31, the end of the financial year, bullion has been made te the value of 136,000.1; this gives an average weekly product of \$500.1, but as the last seven weeks' runs average 10,400.1; it is evident that a great improvement has taken place, no doubt mainly due to the increasing richness of the ore, which an eye-witness, lately arrived from Eureka, reports to run out of the furnaces like melted butter. By the statements in the Eureka papers it appears that from the end of September to end of November, between 300 and 400 tons of Richmond bullion had been forwarded by Pritchard's team line. The recent improvement in the state of the roads, which, according to the Sentine. dates from the beginning of December has enabled the accumulated stock of bullion to be sent in more rapidly and facilitated the arrival of the coke from Elcho station, purchased some time since for use towards the end of the winter, when charcoal would probably be scarce. But for the breach of contract on the part of the captain of the French steamer engaged, to forward the refining apparatus, the accumulated bullion could have been treated ere this at Eureka; any loss of interest on bullion so retained, even for three months, would be doubly met by the saving in refining on the spot. The Rozan process of refining, the one adopted by the Richmond Company, is attracting increased attention in France in consequence of its proved success. The advantages claimed for it of combining great economy in labour by the rapidity of the process, with the great improvement it effects in the lead, render it especially suitable for the Eureka district, the mines of which will be consequently increased in value. The Richmond Company have the option of working the patent for Nevada. During the working season the company distribute in the neighbourhood about 20,000.4 a month in wages, stores, and freights; if a large refining business be created, the inhabitants of Eureka will participate in the advantages of an increased expenditure. Charcoal is now be

led the majority to the belief that it was only a great chamber of ore. Mr. King pledged himself to the view that it was a true fissure vein originating from below, and, therefore, certain to go through the limestone formation. Every step of the subsequent explorations has fully borne out this opinion. The lode is now traced several nundred feet ahead of the spot on which Mr. King formed his judgment, and the hanging and foot walls are more distinct than ever. The establishment of this ledge character of the ore is most important to the company, owing to the privilege accorded by the United States mining laws to the owners of all such true ledges or veins of following them to their termination, however distant that may happen to be. Mr. King's forthcoming report will afford a good test of the charges so frequently and designedly made that the statements issued by the authorities have been of a sensational character. The thin streak of ore going off to the left of the lode from the level below the Lizette tunnel, which had been disregarded previous to Mr. Probert's arrival, but on which he immediately ordered explorations to be made, is now developed to a great extent, and is yielding rich ore in large quantities. The fact that the company will shortly be in a state to tide over the future shortened periods between the times of bullion production and sale out of its own cash reserve taken in conjunction with the circumstance that, having paid off all former loans, the borrowing power to the extent of 50,000. exists intact, constitute a position of strength which is in itself an assurance against the probability of attack. By the latest accounts it appears that the mine is still improving, the deepest workings going down in fine carbonates.

St. John del Rey, 262 to 267\frac{1}{2}; at the general meeting, on Wednesday evening. From the discussion which took place, it appears the prospects are so good as to warrant the expectation of much larger dividends next year. A cablegram received since the meeting announces

now, after paying all liabilities, the capital available for developing the mine is about 9000l.

Blue Tent, 5 to 5½; the agent reports that he was washing steadily on on Enterprise claim, and expected to commence on South Yuba before the end of the year. Cedar Creek, 1½ to 1½; the washing was progressing satisfactorily, and the agent expected to cleanup about Jan. 1. Birdseye Creek, 2½ to 2½; the washing was continuing as usual. The new tunnel was in 519 ft., leaving only 256 ft. to finish. Sweetland Creek, 2½ to 2½; owing to an impediment in the ditch, the washing has been slightly interrupted, though at the date of the last advices the washing was going on uninterruptedly The dividend of 2s. per share was declared yesterday. Holcombe Valley, 1 to 1½; at the mecting, reported in another column, the Chairman gave an account of his visit to the mine. It appears from a communication from Prof. Price, received the day after the meeting, that the imperfectness of the concentration of the sulphurets sent him was the cause of their low assay. Portions of them were subsequently taken and properly concentrated, as they would be in a mill, with the proper appliances, and the samples so concentrated assayed over 5 ozs. of gold per ton of 2000 is. This test be in a mill, with the proper appliances, and the samples so concentrated assayed over 5 ozs, of gold per ton of 2000 Ls. This test proves beyond doubt the value of the sulphurets. The only question remaining to be tested is as to the percentage of sulphurets in the rock, and this point Prof. Price is taking steps to ascertain. Almada and Tirito, § to ½; at the meeting, on Monday (reported elsewhere), it was shown that the net profit for the half-year ending June 30 amounted to 5019t, and that the balance now standing to the credit of the profit and loss account was 19,643t; and as soon as the carroses of ore in transit had been realized the directors ex-

as the cargoes of ore in transit had been realised the directors expect to be in a position to pay the dividend authorised at the last half-yearly general meeting. The newly-elected Chairman (Mr. P. F. Needham) expressed a hope that the next time he had occasion to address the shareholders he would be in a position to submit some very good news.

Cape Copper shares remain inactive at quotations, 30\frac{1}{2} to 30\frac{3}{2}; discouragement has been caused by the announcement of the manager at the mines that at Spectakel the principal stope has fallen off in American mines continue neglected, and scarcely any transactions have been recorded. Hydraulic shares, however, continue in moderate request, while a fair amount of business has been transacted.

Richmond Consolidated, 6½ to 6½. Cablegram received—Week's run, \$57,000. The total make this season amounts to \$1,388,000.

at an average of 17s. per unit, realising approximately 19,900l.; the two previous sales realised an average of 17s, 10½d. and 17s, 3½d. per unit respectively.

Van, 21 to 23; the mine is looking much as usual—the agent reports that he was still meeting with patches of lead in the crosscut at the 90. Van Consols, 2½ to 2½; the recent frost has not interrupted the water-power at this mine; the stream, being very rapid and large, has escaped the fate of many smaller streams which are used for working mines in Wales. The lode in the bottom of the mine appears to be now of a permanent lead-producing character, yielding 3 tons per fathom. Great West Van, 15s. to 29s.; the cross-cut to reach the main lead-bearing lode is being rapidly pushed forward; the usual returns of lead, 30 tons per month, are being made, and is expected to be largely increased when the main lode is intersected. Pennerley, 1½ to 1½; there is no alteration in the mine. The lode at Potter's Pit is looking very well for an improvement. The sale on Wednesday, 80 tons, realised 1234l. The frost is slightly interfering with operations. Bog. ½ to ½; the lode at the 175 has improved still further during the week, and is now worth full 6 tons per fathom. The sale on Wednesday, 60 tons, realised 15l. 10s, per ton.

Wheal Peevor, 6 to 5½; the tinstuff sold realised 57ll., and a parcel of black tin will be sold on Thursday. Nothing new in the mine. Penstruthal, 13s. to 15s.; the shaft still continues of a uniform value and produce. A permanent and profitable mine is being rapidly opened out.

Penstruthal, 13s. to 15s.; the shaft still continues of a uniform value and produce, A permanent and profitable mine is being rapidly opened out.

Subjoined are the closing quotations:—

Bog, ½ to ½; Carn Brea, 55 to 57; Delocath, ±9 to 51; Devon Great Consols, ½½ to 2½; East Cavadon, ½ to 1½; East Lovell 8 to 8½; Hingston Down, 1 to 1½; Parys Mountain, 8s, to 10s.; Pennerley, 1½ to 1½; Penstruthal, 13s. to 15s.; Roman Gravels, 12½ to 13½; Tinrordt, ½9 to 30; Tankerville, 7½ to 8½; to 13½; Tinrordt, ½9 to 30; Tankerville, 7½ to 8½; to 15; West Chiverton, 1 to 1½; West Basset, 7½ to 7½; West Grivelle, ½ to 1½; Cape Copper, 81½ to 31½; Chontales, ½ to ½; Codar Creek, 1½ to 1½; Cape Copper, 81½ to 31½; Chontales, ½ to 5½; Codar Creek, 1½ to 1½; Cape Copper, 81½ to 31½; Chontales, ½ to 5½; Plagstaff, 1½ to 2; Frontino and Bolivia, ½ to ½; Independence, 2 to 2½; Last Chance, ½ to 1 1½ and plaseo, 1 to 1½; Malabar, ½ to 1½; New Quetonda, 2½ to 3½; Sica, ½ to 5½; Richmond Consolidated, 6½ to 6½; Sweetland Creek, 2¾ to 3½; Sica, ½ to 5½; Blue Tent, 5 to 5½; Holcombe Valley, 1 to 1½; New Pacfie, 7s. 6d. to 10s.; West Eagair Lie, 2 to 2½.

COLLUERIES AND IRONWORKS.—Owing to the impending holi-

West Esgair Lie, 2 to 2½.

West Esgair Lie, 2 to 2½.

COLLIERIES AND IRONWORKS.—Owing to the impending holidays business has been restricted to very narrow limits, the following being among the shares chiefly dealt in:—Thorp's Gawber, Bilson and Crump, Cardiff and Swanses, Chapel House, Whitehaven Iron, Silkstone Fall, Industrial Iron, and Swanses, Chapel House, Whitehaven Iron, Silkstone Fall, Industrial Iron, and some others. Thorp's Gawber, It to 15; nothing appears to be known respecting the next dividend, which, whatever may be its amount, cannot at earliest, it appears, be declared before February. Cardiff and Swanses, 3½ to 4½; Whitehaven Iron shares have been in some demand, and close 5 to 6. Weish Freehold, 3 to 3½; the transfer books, it is announced, will remain closed from the 28th inst. to Jan. 2. Chapel House, 4 to 4½; Milner's Safe, ½ to ½ prem.; Clee Hill, 6s. to 8s.; United Bituminous, 5s. to 7s. 6d.; West Cumberland Iron, 11 to 12; Staveley Coal, 119 to 120; Skerne Iron, 5½ to 6½; Silkstone and Dodworth, 21 to 21½; Sheepbridge Coal, 53 to 53½; John Bagnall, 7 to 7½; Industrial Coal, 2½ to 3½; Esbe Vale, 7½ to 7 dis.; Henry Briggs, 2½ to 25; Earle's Shipbuilding, 13 to 11 dis.; Noron Brothers, ½ to 3½ prem.; Palmer's Shipbuilding, 13 to 11 dis.; Noron Brothers, ½ to 3½ prem.; Palmer's Shipbuilding, 17 to 18; Lydney and Wigpool Cell 15s, vesterday—to 3½ to 3 dis.; New Sharlston slares are lower, closing 8 to 9; South Cleveland Iron, 8 to 10; Rhymney Iron, 38 to 40; Central Swedish Iron, 4 to 5; Eshiph and Wilkes Barre Coal, 88 to 90. Richards and Co., 4 to 4½ cun div.; the 10 per cent. dividend will be payable on the 16th prox. Ifton Rhyn, 2 to 2½; Silkstone Fall, 30s. to 35s.; Pelsall Coal, 11 to 13. There is a better enquiry for Cardiff and Swansea shares, the dividend just declared having brought in some buyers. Bilson and Crump Meadow, 10t. paid, 11 to 11½; these shares are remarkably well held. West Mostyn, 12 per cent. preference, 3t. paid, 3½ to 3½. The fron trade of the North and the Sou

sale on Jan. 5.

The Rio Tinto Company give notice that the interest warrants for epayment of 5s. 2d. per share will be posted to proprietors on the 31st inst., and the payment of paid on Jan. 1.

THE PROVIDENCE MINES.—The lode has been cut on the other side of the cross-course at Hawk's shaft, and is very good, it being of more value than where it was thrown out of its course; other parts of the mines have also improved. The financial position of the mines is good, and no call will be required at the next account meeting, as intimated in the Mining Journal of Saturday last. The mines are producing about 15 tons of tin per month of four weeks, and the labour cost for the same period is about 550. They are a little over paying all costs.

CHAPEL HOUSE COLLIERY.—For the year ending Oct. 31 the average output of coal was 6300 tons per month. Lust month, however, the raislags amounted to 8000 tons. Fifty new wagons have been ordered, and as any increase of rolling-stock will enable the company to increase its output, there is a prospect of early improvement in the profits which stready enable the company to divide 15 per cent.

GEORGIA TIN AND COPPER MINING CDMPANY (Limited),—Resolutions have been passed to wind up this company voluntarily, and Mr. R. Mitchell, of Abelurch Chambers, Abelurch-yard, has been appointed liquidator.

Liankwst Mink—Fatal Accident and as been appointed liquidator.

Liankwst Mink—Fatal Accident to a Sharkeholder.—

Among the shareholders who attended the meeting of the Lianrwst Company at the mine on Monday was Mr. Tamblyn, stock and share dealer, of Cornhill Chambers, London, who remained until the following day in order to go underground. On Tuesday whilst underground he fell 6½ fms. from the intermediate platform at the footway shaft, never recovered consciousness, and died shortly after of the injuries sustained. Capt. Knapp, who was with him at the time, was not to blame in the gantter.

THE PRODUCTION OF LEAD AND SILVER.

THE PRODUCTION OF LEAD AND SILVER.

The returns of the ores raised in the United Kingdom during the year 1873, as prepared by Mr. Hunt, show a marked decrease in the production of lead and silver as compared with previous years. This fact has evidently been overlooked by those connected with our lead mines, for during the last two or three years companies have been formed for opening out new ground, in which it was expected that the output would be very large indeed. Still we have it on record that the productive power of our lead-bearing districts has gradually fallen off the last 20 years. In 1855 the quantity of lead ore raised in the United Kingdom was 99,330 tons, and which yielded 561,906 ozs. of silver, whilst in 1873 the output of ore was only 73,500 tons, giving 524,307 ozs. of silver. This great decline falls to the lot of all the English counties excepting Shropshire, and to the Welsh counties with the exception of Montgomeryshire, where the returns from the Van Mine have raised that county to the first position in North Wales. This will be apparent if we only look to the position of that exceptionally fortunate property during the last few years. Thus, in 1867 the quantity of ore raised in that county was 3588 tons of lead ore, while the Van yielded 615 tons, whilst in 1873 the output was 7976 tons, towards which the Van contributed 5740 tons. That the falling off has been a very serious one indeed will be seen by taking the quantity of ore raised for two periods distant from by taking the quantity of ore raised for two periods distant from each other by seven years. The tonnage of lead ore and silver raised in England for the years 1867 and 1873 was as follows:—

		1867.				1873	
To	ns lead	ore. (Ozs. silver.	. T	ons lead	ore.	Ozs. silver.
Cornwall	8,645		314,326	********			200 FOO
Devonshire	803	******	13,719	**********			0 510
Bomersetshire	884	*****	1,700	**********			
Derbyshire	4,917	*****	1,000	*********	4,442		BEO
Staffordshire	83	******	-	**********			
Lancashire	690	*****	2,060	**********		******	
Shropshire	4,506	*****	-	*********		******	0.400
Yorkshire	7,539	*****	3,000	**********		*****	
Cumberland	5,683		31,022	*********	2,425	*****	16,175
Westmoreland	2,418		24,142	**********	1,530	*****	16,850
Durham & Northum.	22,574		77,678		18,623	******	47,862
							-1,000
Make 1	80 740		400 848		44 808		010 550

From the above figures it will be seen that Lancashire has alongether disappeared from the list of ore-bearing counties in England, whilst all the others show a most decided decrease, with the exception of Shropshire, in which the Roman Gravels in 1867 only produced 840 tons of ore, against 2550 tons in 1873. There are probably more mines in Derbyshire then in any other county in England, yet nearly one-half of the ore raised comes from one of the mines of the Messrs. Wass. In the other parts of the kingdom we find that in some places there has been a considerable increase in the production,

whilst in others there has been a decrease. The quantities of lead ore and silver raised in 1867 and 1873 were as follows:—

		1867				1873	
	lead	ore.	Ozs. silver.	T	ons lead	ore.	Ozs. silver.
Cardigan	7,839	*****	63,113	**********	. 5,373	*****	39,689
Carmarthen, &c	822		. 3,595	*********	604	4000.0	2,518
Montgomeryshire	3,588	*****	14,520	*********	7.977	*****	54,957
Pembroke, &c	317	*****	2,175	*********	178	*****	1,451
Denbigh	8,987	*****	33,082	*********	2,997	*****	11,339
Flintshire	4,202	*****	29,700	**********	1,941	******	12,337
Carnarvon	303	*****	824	*********	966	*****	2,082
Isle of Man	3,799	*****	165,170	********	4,372	*****	163,058
Ireland	1,883	*****	. 12,140	**********	1,186	******	4,420
Scotland	2,954			*********	3,207	*****	10,720
	34,694		335,747	*********	28,795	******	302,751

It will be seen that the richest ore in the kingdom is that of the Isle of Man, giving more than 40 ozs. of silver to the ton of lead ore, Cornwall standing next. A good many mines during the last few years have been re-opened in Flintshire, but it is evident that they have been the reverse of productive. These facts and figures will, no doubt, be of some use to those who take an interest in lead mining, for they are such as have not yet been made known to the public. for they are such as have not yet been made known to the public.

STOCK EXCHANGE YEAR BOOK AND DIARY.—So large an amount of business is now done in joint-stock companies' shares, and specu-STOCK EXCHANGE IEAR BOOK AND DARKY.—So large an amount of business is now done in joint-stock companies' shares, and speculators are so constantly changing their investments from one security to another, that the Stock Exchange Year Book and Diary, the object of which is to provide a reliable and inexpensive digest of information relating to public securities and joint-stock companies, will prove of great utility to a very large number of readers. It appears that the amount of the securities known to the markets of the United Kingdom, and of which particulars are given in the year book, is no less than 4,459,459,128... Government Stocks, representing investments of 3,030,261,594.*: railways, 1,116,702,5622.*: banks (palup), 99,067,6861.*; and other companies and securities (paid-up), 217,337,2861.*; and considerably more than half of these, or about 2,450,000,000., are actually held in this country. The Editor (Mr. Skinner) very truly remarks that the sole claim to usefulness of such a work as this is the correctness of its statements, and than opains have been spared to secure this all-important consideration. In the case of Government securities, the whole amount of the debts which have to be considered in judging of the probability of the interest being punctually paid, and in the cases of railways and other public companies the names of the directors, offices, &c., and in many instances the purchase-money paid, are carefully given. The volume, which is published by Messrs. Cassell, Petter, and Galpin, is very complete, and appears to have been compiled quite regardless of trouble; it is altogether an extremely useful and necessary work, and as a dary (a week in the opening) upon fine writing paper is combined with it, it can readily be adopted by all men of business, as it will not add to the number of books necessarily occupying a place on the office table.

of business, as it will not add to the number of books necessarily occupying a place on the office table.

THE MILLION ON THE RAIL.—In a carefully written pamphlet bearing this title Mr. G. W. Jones (of Messrs. Davies and Co., of Finch lane, by whom it is published) describes a modification of his suggestion for universal penuly railways, which formed the subject of a paper read before the Society of Arts in March, 1870. Mr. Jones very truly states that more damage is often done to the seat of a first-class carriage by the passenger's dirty boots, or his luggage, than by sitting on it, and the shrewdest witnesses have not been able to define the difference of cost of conveying a full carriage and an empty one. He urges that when the third-class fare is reduced to its proper proportion—when the third-class passenger is carried by the slow trains of a company "a stage" of five or ten miles 50 a penny—the numbers who will find occasion or excuse for "going by the rail" will be so great that the number of trains must be increased, and every train muss be lengthened. It is highly probable, also, that the season ticket system, which is unprofitable to the company, will be abolished, and books of 25, 50, and 100 return tickets—to pass the bearer—substituted; and the use of the return ticket at fares and a half encouraged by allowing the passenger to return any day within a week for any distance less than 100 miles, and any day within a fortnight beyond that distance. And these reforms adopted, instead of a 1,000,000′, sterling increase in seven years to the North-Western Railway Company, 600,000′, to the Midland Company, and 300,000′, to the Great Northern Company from the third-class passengers alone, and a falling off from the first and second classes, it is not too much to anticipate that the first and third classes combined will yield to cach of these three companies—the Midland, London and North-Western, and Great Northern Companies—an increase of 500,000′, sterling a year for several years to come without materi

of equal advantage to both passengers and shareholders.

PURIFYING COKE.—Mr. S. DE NOMAISON, of Perigueux, has patented some improvements in treating mineral coals by acids. The invention relates to a process for purifying coke from sulphurous and other detrimental compounds. The combustible is heated to redness with exclusion of air, whereby the pyrites or bi-sulphide of iron which it contains is converted into photosulphide. It is then received in tanks containing water, to which is added hydrochloric acid, which dissolves the photosulphide of iron, disengaging sulphuretted hydrogen, and also dissolves others of the earthy matters present. The coke is then washed with water and dried. The process is most readily effected upon small coke or dust, and it is, therefore, in some cases preferable to pulverise the material in the first place, and to agglomerate it into blocks after purification. The process is applicable to peat and anthracite, and lignite treated in this manner gives a product which has the qualities of wood charcoal.

	LEAD ORES.	
•	Date. Mines. Tons. Price per ton.	Purchasers.
1	Dec. 19-Powell Consolidated. 30 £15 8 6	Walker, Parker, and Co
	23 - Bog 60 15 10 0	Panther Lead Co.
	-Pennerley 80 15 8 6	Sheldon, Bush, and Co.

PURSUANT to a DECREE of the High Court of Chancery, made in a Cause "AIRD v. SMITH, 1874, A. 91," the CREDITORS of HENRY GEORGE SMITH, late of Greenwich, in the county of Kent, Merchaut, deceased, who died on or about the 1st day of April, 1873, are, on or before the 9th day of January, 1875, to send by post, pre-paid, to Mr. WILLIAM HINE HAYCOCK, of No. 6, College Hill, Cannon-street, London, E.C., the Solicitor of the Defendants, the Executors of the said Henry George Smith, their Christian and Surnames, Addresses and Descriptions; the full particulars of their Claims; a Statement of their Accounts, and the Nature of the Securities (if any) held by them; or, in default thereof, they will be PEREMPTORILY EXCLUDED FROM THE BENEFIT OF THE SAID DECREE. Every Creditor holding any Security is to produce the same before the Vice-Chancellor, Sir RICHARD MALINS, at his Chambers, situated No. 3, Stone Buildings, Lincoln's Inn, Middlesex, on Thursday, the 14th day of January, 1875, at Twelve o'clock at noon, being the time appointed for adjudicating on the Claims.

Dated this 10th day of December, 1874.

GEO. RODDAM BURN, 33, Carter-lane, Doctor's Commons, Agent for Perker and Son, of Lewisham, Plaintif's Solicitors.

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Particulars by letter. ARMAND FALLIZE, Ingénieur, à Liége (Belgium)

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WILLIAM BREDEMEYER,

MINING AND CONSULTING ENGINEER. U.S. MINERAL SURVEYOR. Particular attention paid to Underground Surveys

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Mountains, and in the Coal and Iron Region of the Southern States.

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DARLINGTON'S PATENT ROCK-BORING MACHINER

OFFICES,-2, COLEMAN STREET BUILDINGS, MOORGATE STREET, LONDON.

FOR TUNNELLING, DRIVING LEVELS, CROSS-CUTS, AND SINKING SHAFTS.

TYNE CAST MALLEABLE IRON COMPANY,

WORKS: TEAMS, GATESHEAD; LONDON OFFICES: CHANDOS CHAMBERS, ADELPHI, W.C MANUFACTURERS OF ALL DESCRIPTIONS OF

MALLEABLE IRON CASTINGS, delivered in London, carriage free.

THE STEPHEN ROE DIFFUSIVE DAYLIGHT REFLECTOR COMPANY

(LIMITED).

This company is now fully registered, and in full operation, doing at present a emunerative business, and capable of great extension.

25 per cent. dividend may be fairly anticipated.

Messrs. CUNLIFFE, BROOKS, and CO., King-street, Manchester. Messrs. SUTTON and ELLIOTT, 17, Brown-street, Manchester.

Messrs. NICHOLSON and MILNE, King-street, Manchester.

Prospectuses and Forms of Application, with Testimonials, may be had, and hares taken up, by applying to the Bankers, Solicitors, Auditors, or to the Seretary, Mr. Philip Grant, at the registered office of the company, 80, Market-treet, Manchester.

rect, Manchester.

A limited number of shares only remain to be taken up for the present.

Responsible agents wanted in all large towns.

LONGDEN'S LIST.

ORSALE,—
CHINA CLAY SETT. in FULL WORK.
BILVER-LEAD SETT, in WORK. Very low price for cash.
HEMATITE (RADIATED) SETT—60 per cent, pure iron. Price low.

N T E D . —
THOUSAND TONS of ANTIMONY. Give prices f.o.b.
GANESE—ANY QUANTITY, RICH or POOR ORE. Prices f.o.b
HENRY LONGDEN, MINING EXPERT, 18, COLEMAN STREET, E.C.

THE GLOBE NEW PATENT IRON AND STEEL COMPANY (LIMITED).

WORKS-28, FREETH STREET, AND ROTTON PARK STREET, BIRMINGHAM.

STEEL CONVERTERS AND REFINERS, ROLLERS. FITTERS, AND FORGERS.

MANUFACTURERS of ALL DECRIPTIONS of CAST STEEL, HEAVY MANUFACTURENS OF ALL DEURITIONS OF CASE STREET, AND AND ADDRESS OF THE AND BOLLER PLATES, CAST, SHEAR, BAR, SPRING, SHEET, AND EXTRA SPECIAL TOOL STEEL, warranted.

MANUFACTURERS of EXTRA SUPERIOR FORK and
SHOVEL STEELS.

COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY DISTRECT UNDER THE CHARGE OF THOMAS EVANS, Esq., H.M. INSPECTOR OF MINES.

NOTICE IS HEREBY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the above-named Act, will be HELD on the 13th and 14th days of January next, and CANDIDATES INTENDING TO PRESENT THEMSELYES at SUCH EXAMINATION must, on or before the 1st day of January, notify such intention to the Secretary of the Board of the above-mentioned District, from whom all information as the portioning seem to obtained. r before the above-menesses to Board of the above-menesses to Board of the Board, alars can be obtained.

By order of the Board, WM. SAUNDERS, Secretary, WM. SAUNDERS, Full-street, Derby.

MINING NOTABILIA.

[EXTRACTS FROM OUR MINING CORRESPONDENCE.]

THE COPPER STANDARD.—With metal at a high price, and business brisk, the sudden fall of the standard at the Ticketing last week has caused great supprise in the West. The standard generally in its upward course is painfully slow; its drop is oftentimes tremendously rapid.

THE NASCENT COPPER PROCESS.—The result of the experiments on the mineral in the Gunnislake district is looked forward to with no littlecuriosity. The extraction of silver in paying quantities from the burrows in this neighbour-cold is "a consummation most devoutly to be wished."

COURT GRANGE.—The stopes in the westeru part of the mine are now worth in the 16 fm. level 12, per fathom, and in the level above 14. per fathom, CATHEDRAL.—The lode in the shaft is worth 40., per fathom, and in the winze under the 20 is worth 20., per fathom.

Notices to Correspondents.

* Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of reference.

BORROWDALE PLUMBAGO AND LEAD MINES COMPANY.—Be far from the old plumbage works at Borrowdale having remained dormant for 32 years, as stated by Mr. W. White in his communication published in the Mining Journal of Dec. 12, the mineral has long been regularly worked, and so recently as Dec. 7 the manager, Mr. W. Salmon, wrote that the prospects of the mines were improving daily.—T. H.

mager, Mr. W. Salmon, wrote that the prospects of the mines were improving daily.—T. H.

Lenarmon—Can any of your readers supply any reliable information regarding the Lianarmon Lead Mine, alout which very highly coloured representations were made in the original prospectus, and which seem far from being realised? The shares were quoted in the Share List at 2l., but the directors are asking for more money to enable them to carry on their explorations, which are for the present, I believe, suspended.—INVESTOR.

CREATION OF POWER—"J. M." (Manchester).—The assertion that by the use of your mechanical arrangement you can make a one-horse engine do the work of five, such engines working without your machinery, is based upon some error your calculation or judgment. Such a combination of cams and levers could not transmit the power at all without very considerable water. But If, as you suppose, one-horse power applied to the pulley behind becomes five-horse power at the pulley in front, it follows that if you connect the two pulleys by a belt the spare. The absurdity of this supposition is obvious.

"J. W."—If there was the misrepresentation you state you could prosecute the parties for obtaining money by false pretences, but it might cost you as much as the amount of the call. Nothing can justify the neglect to publish a balance sheet for so long a period; but it is difficult to see how a mine can be put into liquidation without every shareholder having had notice of the meeting at white the resolution to wind-up was pa-sed. Any good criminal solicitor could be consulted in such a matter; but it is well to consider the risk of expense to be incurred before commencing litigation.

Boaler for a dayer tisknerns.—Our charge for general advertisements is—forsix Hones and angle, 4k.; per line afterwards, 8d. Average, 12 words per line.

incurred before commencing ningations.

GALE FOR ADVERTISHEMENTS.—Our charge for general advertisements is —for rix lines and under, 4s.; per line afterwards, 8d. Average, 12 words per line.

SHARR DEALING.—We never interfere in the sale or purchase of shares; neither do we recommend any particular mine for investment or speculation, or broker through whom business should be transacted. The addresses of most of the latter appear in our advertising columns.

latter appear in our advertising columns, leceived,—"B. A."—"J. R."—"J. H."—"J. A. E."—"F. G. S."—" Shareholder (Cwm Erfn)—"N. T." (New York)—" Shareholder" (West Chiverton)—"T. M." "Stannum" (Breage): Next week—"W. P."

** Going to press a day earlier than usual will, of course, interference with our arrangements, and may cause annoyance to many correspondents from the omission of their communications; but we will endeavour to make all as regular as we can, by the in sertion of omitted matter, in next week's Journal.

THE MINING JOURNAL.

Railway and Commercial Gazette.

LONDON, DECEMBER 26, 1874.

THE COAL TRADE IN 1874-A RETROSPECT AND A FORECAST.

FORECAST.

It cannot be said of the coal trade of 1874 that it has been in any respect as remarkable as either of its predecessors. It has not been such a marvellous year as 1873 in any one respect, for in the latter year prices both reached their highest culminating point, and sustained the fate also that befel Humpty Dumpty. Prices had begun to recede towards the close of last year, and before January, 1874, there was a reduction varying from 50 to 60 per ceut. as compared with the prices realised in January of the immediately preceding year. Since then there has been a gradually augmenting supply and a gradually diminished demand. The obvious result has followed of reduced prices and depressed trade, so that at the present time the coal trade cannot be proved to be in any respect better than it was previous to the enormous inflation of demand that commenced towards the close of 1872. And yet coalowners generally will, no doubt, be constrained to admit that 1874 has not been a thoroughy unprosperous year. The iron trade has undoubtedly passed through many vicissitudes, and presented many perplexing and discouraging aspects within that period; but these have followed less from the inherent weakness of the iron trade than from the troubles that have arisen from time to time in connection with the relations of employers and completed in commenced towards the respection. and discouraging aspects within that period; but these have followed less from the inherent weakness of the iron trade than from the troubles that have arisen from time to time in connection with the relations of employers and employed in cognate branches of industry. It was hardly to be expected, perhaps, that the miners would submit without some resistance to the repeated reductions which the altered condition of trade demanded in their earnings; and hence we find that the immense falling off in the make of pigriron in Scotland, Staffordshire, Cleveland, and Wales at different periods of the year were the immediate result, not of the absolute necessities of the industry, but of repeated, and in some cases protracted, strikes of miners against the reductions proposed in their wages. The process of returning to a former level of trade has been a very painful and laborious one. Industry has had to pass through repeated agonies in the fulfilment of the difficult achievement. But the task has now been all but accomplished; and although neither the value of the materials produced nor the remuneration of those employed to produce them have receded so far hack as the low and ill remunerated point from whence they took their rise, there is good reason to hope that, with few exceptions, the general aspect of our iron and coal trades (for the two are inseparably bound up in each other) are much more normal and healthy than they have been at any time during the lest four very the general aspect of our iron and coal trades (for the two are inseparably bound up in each other) are much more normal and healthy than they have been at any time during the last four years, notwithstanding the exceptional prosperity enjoyed during part of that time; and that we have now reached a safer and more certain basis from which to operate in the future. It is true, indeed, that one or two branches of the iron trade are at the present moment exceptionally depressed; but the pig-iron trade, which is the true barometer of metallurgical and mining industry, was never in a more promising condition, the greater part of the blast-furnaces in Wales, Scotland, Staffordshire, and Cleveland being in operation; while the stocks of iron both in makers' hands and public stores are extraordinarily low. If the present aspect of the pig-iron trade is maintained (and there is reason for hoping that it will even improve with the turn of the year) there is no reason to fear for the immediate future of the coal trade. When we consider that 300 out of every 1000 tons of coal raised in the United Kingdom are absorbed in metallurgical purposes, it is obvious that so long as the iron trade is ordinarily prosperous the coal trade cannot be very iron trade is ordinarily prosperous the coal trade cannot be very

greatly depressed.

It is, of course, impossible to say at the present time how far the production of coal in this country during 1874 will bear comparison with the production of former years. On the whole, it will probably be considerably less than the production of 1873, taking into account the falling off in the consumption for manufacturing purposes. In the Claveland district alone, where some 60 per cent. of all the coal raised in the great South Durham coal field is used for iron making purposes, it is estimated that the make of pig-iron for this year will be 300,000 to 400,000 tons less than the make of 1873; while there has been a more than a corresponding falling off in the production of finished iron. On the other hand there has been a slight excess in the export trade, although it is not to be expected that the increase under the one head will make up for the deficit under the other. Apart from the serious falling off in the demand

LLOYD JONES represented the men. The amount of money at stake was something almost beyond all parallel, being estimated at 18,000. to 20,000%, or one-fifth part of the earnings of more than 50,000 men, but the matter was amicably settled under the award of Mr. RUSSELL GURNEY, M.P., the ultimate referee, who decided on a reduction of about 9½ per cent. in the wages of all underground workers. It may be here noted that this arbitration was conducted on a system somewhat different from any that had preceded it. Each side selected two arbitrators, men of their own sympathies and interests; and, as it happened, they were compelled rather to take up the position of advocates than of independent judges and referees. In a case of this kind it is extremely difficult to discern where the functions of the arbitrator end and those of the advocate or counsel begin; and this is a difficulty which ought, as far as possible, to be avoided, and which easily may be avoided by allowing a competent representative to conduct each case, and by having one arbitrator only instead of four. It may be, and it sometimes is, a difficult matter to make a selection of an arbitrator by mutual consent; and, of course, this difficulty is obviated where each has the power to of course, this difficulty is obviated where each has the power to select one or two (as the case may be) for themselves; but then in

of course, this difficulty is obviated where each has the power to select one or two (as the case may be) for themselves; but then in the latter case there is a very strong prima facie presumption that the arbitrators will fail to agree, and that a final and independent referee will after all—as in the case of the Durham miners—require to be appealed to. In any form, however, arbitration is better than a strike or a lock-out, and where it succeeds in its purpose it should not be too closely criticised as to its rationale.

At a time like the present, when the cost of coal has fallen to its lowest practicable level, compatible with the return of anything like fair profits, it behoves every coalowner to consider how far he can economise the working cost of getting coal. Much has been written in the columns of the Mining Journal respecting the importance of coal-cutting machinery, and its probable economic results. It has been proved repeatedly that by the application of coal-cutting machinery it is possible to work coal at a considerably less cost than by hand, the difference of cost varying, of course, according to the capacity of the machine employed and the nature of the seam upon which it is set to work. Like all great revolutions, the introduction of mechanical appliances in the getting of coal makes its way but slowly, and it may be that the events of the past year have not materially facilitated the result of substituting generally mechanical appliances for hand labour in the getting of coal. But in a quiet and unobtrusive way progress has undoubtedly been made. Increased attention has been paid to the economic effects of using coal-cutting machinery, and numerous experiments have been made at different collieries with the machines of the Messrs. BAIRD, FIRTH, JONES, WINSTANLEY, CLAPP, and some others, all tending to show that the barriers of prejudice are being broken BAIRD, FIRTH, JONES, WINSTANLEY, CLAPP, and some others, all tending to show that the barriers of prejudice are being broken down, and that upon the removal of certain now current doubts and down, and that upon the removal of certain now current doubts and obstacles the great achievementaimed at by the numerous patentees of coal-cutting machinery, and by men like Furth, and Lindsay Wood, of Hetton, who have incurred enormous cost in perfecting such appliances will become un fait accompti. Coal-cutting machines have not hitherto been more generally adopted because in most cases it involves a very large first cost to set them in operation, although the machines by themselves do not cost more than 150% to 250%, because the laying down of such machinery will interfere to some extent with the work of the colliery, because there is a want of agreement as to the best machinery actually at work, and a want of agreement as to the best machinery actually at work, and because of prejudice and obstruction on the part of masters on the one hand, or of the men on the other. The last difficulty is melting away, the first is easily surmountable, the second is less a difficulty now (when profits are so little) than at any time during the last four years, and it will probably never be found that for all purposes and in every respect one particular machine is better than all its four years, and it will probably never be found that for all purposes and in every respect one particular machine is better than all its rivals, any more than it is now agreed that one particular form of engine is superior to all others. The Messrs. BARD, of Gartsherrie, have now built a large establishment exclusively for the manufacture of the machine that bears this name, and at a number of the principal Scotch collieries the Gartsherrie machine is now in successful use, while other machines, such as those of FIRTH, WINSTANLEY, and HURD are making fresh converts on this side the Border. It seems, therefore, that although the progress is slow, there is undoubted progress being made with this most important phase of the coal question, and quite as much has been done in this phase of the coal question, and quite as much has been done in this direction during the past year as in any of its predecessors.

Another twelvemenths' experience of the operation of the Mines

Regulation Act, while revealing certain anomalies, such as those connected with the examinations and qualifications for colliery managers' certificates (about which there has been a good deal of managers certificates (about which there has been a good deal of discussion in our columns), has, on the whole, proved the effect of that measure to have been beneficial. Nearly all the evidence before us leads to this conclusion, and although the preliminary working of the Act must have been attended with no little irritation, annoyance, and labour—not to speak of considerable cost—the matured experience of both masters and men will show that in the matured experience of both masters and men will show that in the main the provisions have been designed in a wise and generous spirit. It cannot, however, be denied that the Act has added some 20 per cent. in most cases to the cost of getting coal, and has prevented that commodity—under the present system of working—from regaining the same unvarying level of low cost that it maintained for so many years previous to 1872.

THE CITY COAL TAX.

THE CITY COAL TAX.

We are not at all surprised to find that the Bill being promoted by the Metropolitan Board of Works for continuing the coal tax for 15 years beyond the date of its expiration in 1889 is meeting with a good deal of opposition. The object for extending the tax is for the purpose of setting various bridges in the metropolis free. The purpose is undoubtedly a good one, but as the tax goes a very long way outside the area governed by the Corporation and the Metropolitan Board, it affects a large population that can in no way be benefited by any improvements made by either of those bodies. This was pointed out with considerable force by a deputation that waited upon the Chancellor of the Exchequer on the subject a few days ago. One gentleman stated that in Brentford there were five manufacturers who consumed annually 60,000 tons of coal, on which they paid a duty of 22504, although they received not the slightest advantage from the improvements made with the money, which were confined to the City. What the deputation asked for was that the coal and wine tax should only be levied when the present law expired within the boundaries over which the Metropolitan Board and Corporation had jurisdiction. The demand, we think, is by no means an unreasonable one, for we believe that the principle of making a distant place help to pay for benefits it cannot participate in is by no means fair. But we are also of opinion that some other tax might be fixed upon instead of on such an essential as coal, for it is a vital necessity to tens of thousands of very poor people in the metropolis, and for the want of which no doubt many in such inclement weather as the present die much sooner than they otherwise would do. inclement weather as the present die much sooner than they otherrould do.

But to consume untaxed coal in London would certainly be a great novelty, for we are not aware that such a luxury was enjoyed by our predecessors, at least during the last 400 years. In Queen ELIZABETH's time coal coming to London was taxed for the benefit of the nation at large, whilst CHARLES I. made the impost a very heavy one. After that so serious was the burden, that the House of Commons took into its own hands the regulation of the coal trade. Prothat the increase under the one head will make up for the deficit under the other. Apart from the serious falling off in the demand for manufacturing purposes, the coal production of 1874 has been Lord Mayor was allowed to charge a duty of 1s. per chaldron for rebuilding the city, which was afterwards increased to 3s. in 1670, the labour disputes in Scotland, West Yorkshire, South Staffordshire, Wales, and other districts, all which have involved very serious losses to both employers and employed. It is interesting in this connection, and one of the most hopeful signs of the times, to notice the increasing disposition on the part of masters and men to refer their difficulties to the arbitration of the coal trade. Proceeding onwards, we find that after the great fire in London the Lord Mayor was allowed to charge a duty of 1s. per chaldron for rebuilding 52 new parish churches. Then an addition was made to the tax for the purpose of rebuilding St. Paul's. Coming down to a more recent date, we find that the rate of duty in 1775 was 8s. per chaldron, and in the early part of the present of the majority of the Commissioners will not recommend any material alteration of either of the Acts, although it may suggest some means by which both laws may be more equition for the purpose of rebuilding St. Paul's. Coming down to a more recent date, we find that the rate of duty in 1775 was 8s. per chaldron, and in the early part of the present of the times, which was advanced to 9s. 4d., but at this period so high was the price, and so heavy was taxation generally, that for seven years there is a ditional to the production of 20 per cent. In the Durham coal trade is, perhaps, was no increase in the consumption of coal, for, whilst in 1800 the price, and so heavy was taxation generally, that for seven years there was no increase in the consumption of coal, for, whilst in 1800 the price, and so heavy was taxation generally, that for seven years there was no increase in the consumption of coal, for, whilst in 1800 the price, and

a drop to 9s, 4d., and in 1824 to 6s. per chaldron, which continued until 1832, when the present duty of 1s. 1d. per ton came into operation, the Act stating that the revenue was to be devoted to public improvements in the metropolis. The tax last year amounted to 424,790. It will, consequently, be seen that from time almost immemorial the inhabitants of London have been taxed for every particle of coal they used, and why that particular article should be so treated more than others we are at a loss to understand. So far as we can see, there does not appear any reason why iron, steel, wood, bricks, or stone should not be taxed as well as coals; and there would be this in favour of rating any such articles, that by so doing the poorest of our inhabitants would be relieved of a burden on a commodity that they cannot well do without, and which is almost as essential to existence as bread itself.

At present the price is so high that a sufficiency to give as much

modify that they cannot well do without, and which is almost as essential to existence as bread itself.

At present the price is so high that a sufficiency to give as much warmth as is required by children, females, and the aged is only to be found in the homes of the well-to-do classes. In our mining districts a collier will consume a ton of coal, with perhaps only one fire-place, in five or six weeks, but the same quantity would in all probability have to last a London working man at least three or four months. But small as is the tax of 1s, 1d. per ton, the doing away with it would lead to a much greater diminution in the price than is represented by that sum. The tax keeps many persons from entering into the trade that would otherwise go into it; so that we should have more competition, instead of something very closely verging on a monopoly, whilst colliery owners would themselves sell direct from their pits, instead of allowing large profits to go into the hands of the merchants. Supply and demand would then be the great regulator of prices, which is not always the case as things are at present. We, therefore, feel that it is not only to the interest of coal proprietors, but more so to the public of the metropolis, that the duty should expire at the time fixed upon by the Act of Parliament, and we have no doubt but such will be the view taken by the parties who are most interested. taken by the parties who are most interested.

THE LABOUR LAWS COMMISSION.

THE LABOUR LAWS COMMISSION.

The Commissioners appointed to enquire into the working of the laws affecting workmen, it is understood, have now brought their labours to a close for the present year at least, having taken a good deal of evidence with respect to the Masters and Servants Act and the Criminal Law Amendment Act. They some time since completed their enquiry with respect to the Masters and Servants Act, and the probability is that the full and complete report will be in the hands of members of both Houses by the time, at least, of the opening of Parllament, if not before. We need scarcely say that it is looked forward to with considers ble interest by the leaders of the various Working Men's Associations throughout the country, and by none more than those connected with the iron and coal trades. As might be expected, Mr. Macdonald has been indefatigable in his exertions on behalf of the Trades Unionists, as has also Mr. T. Hughes, to some extent, but then they have at times to contend with practical and clear-headed men like Mr. Roebuck, Mr. Gurney, Mr. Bouverie, and others. Some of the evidence taken has been as much matter of opinion as of fact, and, of course, must be taken for what it is worth. As an instance, we find that a witness from Highfield said that he doubted whether the masters did not break their contracts quite as frequently for their numbers as the men did. On heing pressed howaver he admitted that he was not the second of the contracts quite as frequently for their numbers as the men did. On heing pressed howaver he admitted that he was not the second of the contracts quite as frequently for their numbers as the men did. On heing pressed howaver he admitted that he was not the second of the contracts quite as frequently for their numbers as the men did not be a factor of the contracts quite as frequently for their numbers as the men did not be a factor of the contracts quite as frequently for their numbers as the men did not be a factor of the contracts quite as frequently for their n from Highfield said that he doubted whether the masters did not break their contracts quite as frequently for their numbers as the men did. On being pressed, however, he admitted that he was not aware of any case where a master had been summoned for a breach of contract by men. Here Mr. MACDONALD suggested a reason, by remarking:—"Is there not this reason also—that the men have no confidence that if they were to bring a case forward the tribunal would give them what they asked for, although they were found to be in the right?" Such an opinion may be entertained, and probably is, by a considerable number of workmen, but we do not think that there is the least ground for it, although, like ordinary mortals, magistrates doubtless err at times, but this is less likely to be the case with stipendaries than with the ordinary unpaid magistrates." Those, however, who have carefully gone through the evidence will agree with us that so far as regards the Masters and Servants Act no case has been made out for any change in the law. Cases of hardship have taken place, we believe, in the carrying out of the Act, but this has been no fault in the law itself, but only in the administration of it, for we must candidly admit that magesterial decisions, not only with regard to disputes between masters and men, but with respect to almost every offence, are not only at times uncertain but most conflicting and in sewe instances an exercity hards. In fact

tration of it, for we must candidly admit that magesterial decisions, not only with regard to disputes between masters and men, but with respect to almost every offence, are not only at times uncertain but most conflicting, and, in some instances, apparently harsh. In fact, there is nothing like uniformity with respect to the penalties for similar offences, for what in one part of the country would lead to the fine of a few shillings, in another part would lead to the infliction of as many pounds. It is the same also with respect to imprisonment. What is, then, required, in our opinion, to remove all grounds for complaint is to endeavour that the punishment inflicted on those who have been guilty of any laches should be as even as possible. There is great difficulty indeed in devising any measure by which such a desirable consummation could be achieved, but it would certainly be worth trying.

We are not aware that in our ironmaking and mining districts there are many complaints as to the magistrates being in any way biassed in favour of their own class, whilst by the Mines Regulation Act of 1872 the owner, agent, or manager of a colliery, or the father, brother, or son of such persons, cannot act in respect to any offence under the Act. Still, anomalies in the administration of the law, it is to be regretted, are of frequent occurrence, and in the preliminary report of the Commissioners a number of cases heard under the provisions of the Masters and Servants Act are given, which certainly bear out our remarks, for we find that for some apparently trifling offence in one place the punishment appears to be very heavy, when compared with what has been given for a similar offence in some other part of the country. In one instance we find that an apprention in an iron shipbuilding establishment, who ran away, was ordered to pay 4t. 15s., or be imprisoned for 30 days in default, whilst another lad, at Exeter, who absented himself on Easter Monday, was sent to prison for six weeks, whilst another runaway lad had thre ordered to pay 41. 15s., or be imprisoned for 30 days in default, whilst another lad, at Exeter, who absented himself on Easter Monday, was sent to prison for six weeks, whilst another runaway lad had three months. In cases of breach of contract by workmen the same differences appear in the inflicting of penalties. At the Lesmahagow Colliery a roadman got drunk whilst in charge, and then left his work; the compensation was fixed at 101., and the man was sent to prison for 15 days. In a case in Northamptonshire, for neglect of work, the compensation was stated to be 71., and the defendant was sent to prison for three months. These conflicting sentences alone are calculated to seriously impair the value of the Masters and Servants Act, which certainly appears on the face of it to be fair alike to masters and workmen, for by it both the complainant and the defendant can be heard, so that after hearing both statements it in not difficult to come to a true decision. Whether any system can be brought into operation whereby the Act can be more equally admistered than it appears to have been we are not aware, but we do believe that were some effort made in that direction the law would be far more satisfactory to working men than it now is. would be far more satisfactory to working men than it now Looking at the Criminal Law Amendment Act, and how seldom it is invoked, we cannot see what benefit its repeal would confer on the honest working man. But it should be borne in mind that the Act honest working man. But it should be borne in mind that the Act does not apply to working men only, for it clearly states that any persons doing certain things would render themselves liable to imprisonment. What the issue will be it is not easy to divine, but we anticipate that the report of the majority of the Commissioners will not recommend any material alteration of either of the Acts, although it may suggest some means by which both laws may be more equitably and evenly administered. If that is done then we think that all cause for complaint will have been removed.

decline for the first 47 weeks of this year, as compared with the corresponding period of 1873, was accordingly about 910,000 tons. A rather sharp weekly reduction in coal production is expected to characterise the Pennsylvania coal trade until the close of the year, and indeed until next spring. At over 20 of the mines worked by the Reading Coal and Iron Company work has already ceased for the season. Work has been regumed at the new rail mill of the Renesslaer Ironworks at Troy, under the old scale of employers prices which the workmen refused to accept at the time of a recent atrike. The Allentoun Iron Company has been running upon full time all the year, but the other furnaces in the Lehigh Valley have been effecting only about half their usual production. The Phoenix Iron Company has one of its two furnaces blown-out, and it would be better, in the opinion of the management, to blow both out, but one is kept running for the benefit of Phœnix Villa.

1-68. According to the Baltic Gazette, the results produced by this improved powder are extraordinary, and a Prussian 28-centimetre gun loaded with it is equal to an English 11-in. gun with the ordinary powder.

REPORT FROM SCOTLAND.

Dec. 23.—The speculative strength which the Warrant Market has exhibited for many weeks seems now to have spent itself, and prices are now more in harmony with the dull state of the trade. The price at the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's report was about 85s., and since the date of our last week's re

IRON IN THE UNITED STATES.

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The almost complete collapse of the American demand for our railway iron is one great cause of the depression which has stolen over the British iron trade with increasing force and severity as the winter has approached. The exports of our railway materiel to the United States have exhibited great languor during the year, but it was not until November that they sunk to their present terribly reduced point. Thus we only sent 1819 tons of our railway iron to our American cousins in November, while in November, 1873, they took from us 17,919 tons, and in November, 1872, 31,064 tons. The exports were, as we have already observed, dull and lanquid during the spring and summer, and for the eleven months ending Nov. 30 this year they only amounted to 93,445 tons, as compared with 177,955 tons in the corresponding eleven months of 1873, and 441,074 tons in the corresponding eleven months of 1873. We thus arrive at the remarkable fact that we only sent the Great Republic rather less than one-fourth the quantity of railway materiel in the first three quarters of this year, which we forwarded in the same direction in the corresponding three quarters of 1872. A result so remarkable certainly calls for such enquiries as we can make, and such comments as we can offer.

We do not think that the decline in the American consumption of such comments as we can offer.

We do not think that the decline in the American consumption of

We do not think that the decline in the American consumption of British rails is wholly attributable to the growth of American metallurgical industry, as may be at first sight supposed. It is rather due to a combination of causes. No doubt the increased production of iron in the United States has had the effect of displacing a certain amount of English iron from the American markets, but this is not the only circumstance which has reduced the demand for our rail-way materiel across the Atlantic. The credit of the American rail-way interest has been affected by a series of adverse circumstances to such an extent that it has now sunk to a very low ebb indeed. The JAY COOKE panic of September, 1873, raised suspicions and provoked alarms, and now a vast amount of American railroad bond central finds itself without interest. Defaults and "arrangements" provoked alarms, and now a vast amount of American railroad bond capital finds itself without interest. Defaults and "arrangements" have become the order of the day to such an extent that European holders of American railroad bonds are utterly weary of the deceptions and disappointments of which they have been the victims. Then the bodies known as the "grangers," in proclaiming their determination to secure a reduction in railway rates, without regard to a due remuneration of the capital engaged in American railroad enterprises, have violated the first principles of political economy; and although they will probably have to retrace their steps, and accept those principles as inevitable, they have none the less struck for a time a deadly blow at American railroad credit. Lastly, we cannot ignore, in considering the present aspect of the American iron trade, the utterly disorganised and chaotic condition of some of the Southern States. How can enterprise be sound or hopeful in of the Southern States. How can enterprise be sound or hopeful in such communities as Arkansas, Louisiana, South Carolina, or North Carolina? In the Carolinas obligations which must, at any rate, be regarded as de facto State debts are repudiated to the extent of Carolina? In the Carolinas obligations which must, at any rate, be regarded as de facto State debts are repudiated to the extent of millions of dollars; in Louisiana the "troubles" between the blacks and the whites rendered necessary the intervention of the President; and in Arkansas two rival Governors have marshalled their forces in battle array. How, we repeat, can enterprise ever thrive in presence of such fatal conditions as these?

We must not, however, despair of the Republic. There is room for prodigious reform in American society, American politics, and American finance; but still even now one must regard the United States as a great nation, possessing vast, not to say unrivalled, re-

American finance; but still even now one must regard the United States as a great nation, possessing vast, not to say unrivalled, resources. The uses of adversity are wholesome, and if their present troubles teach the Americans a few lessons in political economy and morals (not forgetting common honesty) this now vanishing 1874 will not be a wasted year. We believe that the American railroad interest would be greatly benefited if the weaker railroad companies of the United States would make common cause with such of their neighbours as have acquired a comparatively strong credit. We shall, probably, see a good many fusions and amalgamations, and these will tend to heal the wounds of the past, and to accelerate a revival of American railway credit. accelerate a revival of American railway credit.

ENGLISH MACHINERY IN PRUSSIA .- The President of the Prus sian Mining and Ironworks Company (Preussiche Bergwerks and Hütten-Actien-Gesellschaft) stated at the recent meeting in Düssel-Hütten-Actien-Gesellschaft) stated at the recent meeting in Düsseldorf that the second pit at every colliery should, as in England, be made a conditio sine qua non, not only for the protection of human life by the proper ventilation of the pits and means of escape from them, and for the output of increased quantities of coal, but specially in the case under consideration, as a reserve in case of accidents to the pumps in the one shaft, to enable the evil to be remedied without stopping the coal work of the whole colliery. They had weighed this question of a reserved system of pumping in all its points, and had thoroughly convinced themselves that it is indispensable; and after considering offers, and the advantages of several different systems, finally resolved upon the adoption of a system, settled upon with Mr. Davey, the patentee (of the firm of Messrs. Hathorn, Davis, Campbell, and Davey, of the Sun Foundry, Leeds); and contracted with him for the delivery of a duplicate system of steam and hydraulic engines for their colliery Erin, for which the means for the present have been provided by the Consortium. They contemplate the adoption of similar systems for both Hansa and Zollern.

COAL IN NOVA SCOTIA.—Nova Scotia seems to have suffered heavily in her coal interests from the panic of 1873. During the first nine months of that year the trade in coal amounted to 641,057 tons, and during the same period this year it has amounted to 571,889 tons. The quantity of coal raised from the mines in the same months shows a falling off of 12,777 tons.

EXPLOSIVES—GUNCOTTON.—The Special Committee on Guncotton, of which Col. Younghusband, Royal Artillery, F.R.S., Superintendent of the Royal Gunpowder Factories, Waltham Abbey, is president, has closed its proceedings, and presented its final report to the authorities at the War Office. The Committee has thoroughly examined the qualities of guncotton, lithofracteur, and dynamite, with special regard to their utility for warlike purposes, and the general questions on which the report treats are those of manufacture, storage, and use of these several explosives. The Committee finds that guncotton is a most valuable explosive agent for military and naval purposes; that, as it is capable of being manufactured in a wet state, there is as it is explored to being institute and that, as it can be stored wet, it can be safely conveyed on board ship or warehoused without risk. It is also found that guncotton, though fired by detonation, is not exploded by being struck with a bullet. In these respects guncotton is reported to have contrasted favourably with the other explosives mentioned, which, although tolerably safe to store and transport when fresh are not so easier from danger under all given mentioned. fresh, are not so secure from danger under all circumstances,

A NEW POWDER FOR HEAVY GUNS .- It is said that the German A NEW FOWERS FOR HEAVY GUNS.—It is said that the German Government has just adopted a new kind of prismatic powder for its heavy guns, which is far superior to that used in England and Russia. The powder hitherto used by the Germans was similar to the Russian, and was proved to be more effective than the English in some trials made with an English 8 in. Woolwich gun and a Prussian 72-pounder on the artillers shooting ground at Tegel. The new powder consists of hexagonal prisms like the old, but the prisms are plerced with one hole sally instead of seven, and the specific gravity of the powder is raised from 1.65 to

			NO		NO.	. 3.
G.m.b. at Glasgow (deliver	able alongside)	*********	86s	. 0d	80a	. 6d.
Gartsherrie ditto	ditto	**********		6		0
Coltness ditto	ditto	**********	92	6		6
Summerlee ditto	ditto	**********	92	6		0
Carnbroe ditto	ditto	*******		0		0
Monkland ditto	ditto	***********	86	0		0
Clyde ditto	ditto	***********		0		0
Govan, at Broomielaw	ditto	**********	86	0		0
Langloan, at Port Dundas	ditto	*********	95	0		0
Calder ditto	ditto		97	6		0
Glengarnock, at Ardrossan	ditto	**********	91	0		0
Eglinton ditto	ditto	***********	81	0		0
Dalmellington ditto	ditto	**********	88	0		0
Carron, at Grangemouth, se	elected, ditto	*********		6		0
Shotts, at Leith		***********		6		0
Kinnell, at Boness			87	6		
Bar iron	***************************************	***************************************	£10		-	
Nail rods			10	0	-	
	SHIPMENTS.		-			
Week ending Dec. 20, 1873		********		Tons	9.1	56
Week ending Dec. 19, 1874.					7,3	
			*****	*********	43.0	
Decrease					1.8	32
Total decrease since Dec. 25	. 1873			1	55.4	88
mports of Middlesborough pig	r-iron into Gran	gemouth	1-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,.	04
For the week ending Dec.	20. 1873	Gomoden		Tons	4.3	54
For the week ending Dec. 1	9 1874	************			2.3	90
a or the moon onding about	.,				-,0	
Decrease					1.9	64
Total increase for 1874	****************	************	*****	**********	46 4	40
TITLE IN CITE OF THE PARTY OF T	1 7		*****	***********	40,4	200

Without anticipating our Annual Report of the Scotch Iron Trade, which we expect will be ready for next week's Journal, we understand the returns of the year will show a falling off in the make, the exports, the returns of the year will show a falling off in the make, the exports, and the local consumption, consequent on a restricted trade, the result of high prices. The stocks in Connal's Store are augmenting, prices are falling, and the furnaces are stationary at 121. Manufactured iron is, if anything, less enquired for, and makers are desirous to have their works closed for the holidays, as operations are only entailing loss upon loss.

The Coal Trade is slightly more active, with firm prices for domestic qualities, but steam coal is only in limited request. The shipments for the week amount to 31.722 tons, against 33.641 tons in the same week last year. The Fife Coal Trade is better this week, but no change in price.

A conference of miners' delegates was held here this afternoon,

but nothing of importance transpired.

On Monday a circular was sent to the coal and iron masters of Scotland, signed by 15 delegates, representing the colliers and miners on this side of the Tweed. The circular earnestly calls on the masters to consider the propriety of joining them in an endeavour to establish courts or boards of conciliation and arbitration, by which all disputes might be settled and strikes avoided forever.

masters to consider the propriety of joining them in an endeavour to establish courts or boards of conciliation and arbitration, by which all disputes might be settled, and strikes avoided forever.

NAPIER'S FRICTION METER.—"An Engineer" writes to a local contemporary—"I feel sure that the Philosophical Society of Glasgow will find no fault with a stranger who points out the merits of an invention which the diffidence of the inventor seems to have led then to overlook. It is somewhat unfortunate that that paper read by Mr. R. D. Napier on friction in its relation to the velocities of sliding surfaces should have fallen foul of the received rules on the subject, but still more unfortunate that its having done so should have led the society away from the consideration of an invention that is of the very first importance in any discussion on the subject. Although many of the remarks made on Mr. Napier's paper turned on the practical qualities of different lubricants, the speakers quite ignored the fact that the instrument which Mr. Napier had just explained to them was the only one in existence that could definitely determine their various lubricating capacities. Hitherto many attempts have been made to produce an apparatus for this purpose, but the most that has been done is to show the amount of friction produced at considerable intervals of time, either by the retarding effect upon a falling body or by measuring the amount of heat evolved. These instruments at the best are but a very clumays means of securing a record of the varied and subtle changes that take place during alterations in the velocity of the varied and subtle changes that take place during alterations in the velocity of the varied and subtle changes that take place during alterations in the relicitor of friction is always altering in sliding surfaces where lubricants are used under varying velocities must have been well known to Mr. Napier, and he must also have known that the rules for eases where the surfaces are dry, and the coefficient of fr

At a meeting of the Chemical Section of the l'hilosophical Society of Glasgow, Mr. E. M. Dixon read a paper on "The Estimation of Phosphoric Acid." It was explained that the author of the paper had been for some time engaged upon a systematic study of this important and difficult problem in chemical analysis, and that the paper read was simply the conclusions that he had arrived at regarding certain specific parts of the question. The points requiring additional experimental research were indicated, and the author expressed the hope that he should be able to lay before the society in a short time the results of an investigation on which he was now engaged regarding them. The next paper was read by Mr. Thomas Robertson Oglivie, public analyst, Greenock, on "The Estimation of Phosphoric Acid as Ammonia-Phosphate of Magnesia,"

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

Since my last, business has continued on a limited scale, although for coal shares there is undoubtedly a pretty good demand, and prices are higher. The reports of the committees of shareholders of the Benhar and Niddrie Coal Companies have just been issued, and the most interesting portions of them will be found in my report of Tuesday's business. It will be noticed that they are both in favour of the proposed amalgamation going on, and there can be little doubt now but that it will go on; and the shares are, therefore, advancing. With reference to the distribution of profits to Benhar shareholders mentioned in the reports, I may point out that it will amount to 15s. per share on each Benhar; and, as the dividend in them amounts to 20s. per share, this makes a distribution of 35s, per share, which purchasers of Benhars at present prices are entitled to. The report of the Cairntable Company declares a dividend of 10 per cent., but has not been issued. Copper shares (with the exception of Glasgow Caradon) have declined from the want of business. Glasgow Caradon, Gunnislake (Clitters), and Yorke Peninsula may be pointed out as certain to rise when business recovers. Since my last, business has continued on a limited scale, although

ness. Glasgow Caradon, Gunnislake (Clitters), and Yorke Peninsula may be pointed out as certain to rise when business recovers. Americans entirely neglected. Oil shares looking down. Miscellaneous not much dealt in beyond London and Glasgow Engineering, at 22 to 23; Highland Peat Fuel offering at 2 dis.; Langdale's Manure, 3½ to 4½; and Newcastle Chemical, 4½ to 3½ dis. A detailed list of the several days' business follows:—

On Thuraday last a fair business was done. Arniston changed hands at 6. Benhar, 14½ to 14½. Canadian Copper Pyrites done at 42s. 6d., 42s. 9d., and 43s., closing 42s. 6d. to 43s. 6d. Ebbw shares flat, done at 21½ and 22, closing 21½ to 21½. Emma shares good, done at 21s. to 23s. Glasgow Caradon shares firmer, at 31s. 6d. to 32s. Gunnislake (Clitters) flat, at 1½ to 2½. Marbella shares done at 5½, closing 5 7.16ths to 5½. Merry and Cuniphame shares rather weak, done at 69s. 4d., closing at that price. Monkland ordinary shares rather weak, done at 69s. 8d., closing at these prices. Scotish Australian, 28s. 9d. to 31s. 3d. Tharsis shares done at 29½ up to 29 -16ths, closing 26 7.16ths to 26½. Xorke Penipsula ordinary shares 6s. 3d. to 8s. 9d.

On Friday the market was quiet, but the business still continued fair. Arniston in demand at 6 to 6½. Benhar done at 14½, closing 14½ to 14½. Canadian Copper Eyrites lower (dose at 41s. 64 closing 41s. to 145 close 15 const.

On Friday the market was quiet, but the business still continued fair. Arniston in demand at 6 to 6½. Benhar done at 14½, closing 14½ to 14½. Canadian Copper Pyrites lower, done at 41s. 6d., closing 41s. to 42s. Cape Copper changed hands at 30½. Bibw Vale done at 21½, closing weak at 21½ to 21½. Emma again in demand, done at 23s., closing 23s. 6d. to 24s. 6d. Gunnislake (Clitters) again flat on a heavy decline in the copper standards, nominally 1½ to 2. Huntington done at 57s., closing weak at 52s. to 54s. Marbella, 5½ to 5½. Merry and Cuninghame firmer, done at 69s. 6d., closing 69s. to 70s. Monkland, ordinary, done at 4½, closing 85s. to 85s. Niddre hardly so good, done at 69s., closing 68s. 6d. to 69s. Scottish Australian lower at 1¼ to 1½. Tharsis done at 25½ and 26 7 15ths, closing about 26½. New shares lower at 18 7-16ths to 15½. Yorke Peninsula, ordinary, also lower at ¼ to ¾. London and Glasgow Engineering done at 22.

done at 23.

On Saturday the business done was very small, and few changes look place in prices. Arniston good at 6% to 6%. Benhar done at 14%. Canadian Dopper Pyrites done at 14s. 64. and 42s., closing 42s. to 42s. 64. Chillington Iron ower, at 5% to 6%. Ebbw lower, and flat at 2 to 21%. Glusgow Caradon unshanged at 31s. 64.; the monthly sale of ore by this company is announced, being 485 tons, realising 1378. dd, or an average of 11s. 7d. per ton; at this time last year 260 tons only realised 1220. odd, or an average of 94s. 7d. per ton, thus showing a difference of 18s. per ton in favour of this year. The price of the shares was than about 42s.; now they are about 82s., thus leaving a good margin for a rise.

Gunnislake (Clitters) again lower at 1½ to 1½. Merry and Cuninghame dene at 69s. 6d. and 70s., closing about the latter price. Monkland, ordinary, done at 4½, closing 58s. to 88s. Niddrie done at 68s. 6d., closing 68s. to 68s. 6d. Tharsis done at 24½, closing about 25½. London and Glasgow Engineering done at 22, closing

On Monday rather more business was done, and prices were slightly firmer. Arniston shares done at 8½, closing 6½ to 6½. Benhar shares done at 14½, closing 14½ to 14½. Bolekow, Vaughan A shares done at 35. Canadian Copper Pyrites shares done at 42s. 6d., closing 42s. to 43s. Ebbw shares done at 21½, closing 21½ to 21½, but firmer at the reduction. Glasgow Caradon shares were transacted at 32s., and closing 31s. 6d. to 32s. 6d. Gunnislake (Clitters) shares still 1½ to 1½, but firmer. Huntington shares done at 54s. 6d. and 54s., closing 52s. 6d. to 54s. 6d. Marbella shares done at 5½. Merry and Cuninghame shares done at 54½, closing 69s. 6d. to 7s. 6d. Monkland ordinary shares, 85s. to 86s. Niddrie shares done at 68s. 6d., closing 68s. to 69s. Tharsis shares done from 29½ up to 26½, but close weaker at 26½ to 26½. London and Glasgow Engineering shares unchanged at 22 to 23.

On Tucaday the husiness was again fair market flows and wiscon. On Monday rather more business was done, and prices were slightly mer. Arniston shares done at 6%, closing 6% to 6%. Benhar shares done at

shares unchanged at 21 to 23.

On Tuesday the business was a gain fair, market firm, and prices generally higher. Arniton shares done at 03, elosing 63 to 7. Berhar shares Colorado Perithe shares unchanged at 35 to 53; the menthy circular to shares choices of this company is dated Dec. 19, and is favourable. The directors expect dividend in January. The last report from the mine states that the workings never looked better. Soles of shipments 46 to 86 have taken place in Liverpool, 76 to 60 agent alone open the 12 to 20 doing to 10 to 10 agent alone open to 12 to 20 doing to 10 to 10 agent alone open to 12 to 20 doing to 10 to 10 agent alone open to 12 to 20 doing to 10 to 10 agent alone open to 12 to 20 doing to 10 to 10 agent alone open to 10 to 10 to 10 agent alone open alone open

alleged exhaustion, Mr. Geddes is entitled to speak with some authority. He has known the fields in question for many years, and has long acted professionally for their proprietors. From this gentleman and from Mr. Williamson, who is also familiar with the East Lothian coal fields, the committee derive the following ex-planations:

their proprietors. From this gentleman and from Mr. Williamson, who is also familiar with the East Lothian coal fields, the committee derive the following explanations:—

Slight acquaintance with the district will show that the surface of the ground rises gradually from the sea shore near Portobello towards the south in the direction of Peniculic. The well known "edge" seams of coal, which are those of the company, crop out in a line nearly/duc/north and south. From the shore at Portobello an old drainage neue of the company, crop out in a line nearly/duc/north and south. From the shore at Portobello an old drainage much of the coal lying near the surface was, in all probability, worked out at a very early period. This "day or sea level," as it is now called necessarily varies in depth as the surface of the ground rises or falls. At the Glq. necessarily varies in depth as the surface, the ground rises or falls. At the Glq. necessarily varies in depth as the surface, the ground rises of the surface, at Niddric, where pits are sunk to the Stairlead and Great seams, it is 22 ms. deep. It is deeper further southwards, and shallower further northwards. It has been stated to the committee that although the common coal has been worked out between this "day or sea level," and the surface, much parrot coal, the value of which was not formerly understood, remains. The estimates of the prospectus were, however, based upon the assumption that the whole of such coals were exhausted, and account was only taken of those lying below the level in question. The workings beneath this level have been, so far as the committee have ascertained, carried on only in recent times. Their extent and the quantity of coals withdrawn by them should not, in professional hands, be difficult to compute. The engineer's estimate on this point are before the public. The whole difficulty and uncertainty of mining enterprise consists in the impossibility of determining with absolute certainty the existence of that which is hidden from view, and the

unt Amount

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sonable caution has been observed in framing the prospectus estimates of quantities, and that no reason had been presented to them to lead them to suppose they are erroneous or exaggerated.

With regard to the water, the committee are informed, and find on inspection, that no practical difficulty from this source is experienced, although a pit in one of the seams has been sunk to a depth of about 90 fms. Provision, however, appears to have been made in the machinery now on the ground for dealing with any extraordinary influx which may, contrary to expectation, be encountered. The committee are further informed that the water which formerly caused much trouble and expense, and which was probably the origin of the report adverted to, was met with in seams dissimilar in character from those of the Niddrie Company, and not in any way connected with them. Moreover, that the Niddrie Company, and not in any way connected with them. Moreover, that the Niddrie Company, and not in any way connected with them. Moreover, that the Niddrie Company is leases contain express prohibitions against any underground communications whatever with them. Though having similar objects, the leading features of the two companies differ. The merit of the Benhar lies in its possession of a large field of highly popular house coal, found at moderate depth and cheaply worked. The specialty of the Niddrie consists of a field of gas coal, rare as to its extent and facility of production. Among what may be described as subsidiary advantages, the Benhar Company have an important share of the steam coal field of Scotland, while the Niddrie Company's household and steam coal of fair average quality exists in great abundance in close proximity to the shipping ports of Leith and Granton, and to the Edinburgh market.

In estimating the relative merits of the two undertakings, it is right to bear in mind, on the part of the Benhar, that it possesses an organisad agency establishment in full operation, that its capital is 20,400°C, as compared with 310,

COAL, IRON, STEEL.

Amoun		Amour		W	Latest
share		paid-u	p.	Name.	price.
£10	***	6		Arniston Coal (Limited)	634
10		10	***	Benhar Coal (Limited)	141/2
100	***	35	***	Bolekow, Vaughan, and Co. (Limited)	55
10				Cairntable Gas Coal (Limited)	51/4
10	***	10	***	Chillington Iron (Limited)	6
83	***	29	***	Ebbw Vale Steel, Iron, and Coal (Limited)	
10	***	3	***	Fife Coal (Limited)	534
10	***			Glasgow Port Washington Iron and Coal (Limited).	78s.
10	***	10		Ditto All paid	634
10	***	10	***	Lochore and Capledrae (Limited)	
10			***	Marbella Iron Ore (Limited)	516
10	000	3	16	Merry and Cuninghame (Limited)	316
10		10		Ditto All pald	10
10	***	10	***	Monkland Iron and Coal (Limited)	434
10	***	10	***	Ditto 7 per cent. Guaranteed Preference.	834
100	***	100	***	Nant-y-Glo and Blaina Ironworks pref. (Limited)	44
10	***	. 2	***	Niddrie Coal (Limited)	334
10		4	***	Omoa and Cleland Iron and Coal (Limited)	48s.
1	***	1	***	Scottish Australian Mining (Limited)	134
ĩ	***	Sn.		Ditto New	34
50		50	***	Shotts Iron	
10		4	***	Ditto New, issued at 2½ premium	
40	***				
				COPPER, LEAD, SULPHUR, TIN.	
10		7	***	Canadian Copper Pyrites (Limited)	42s.
10		10	***	Ditto All paid	634
10		7	***	Cape Copper (Limited)	3014
1	***	i	***	Cwm Rychan Silver Lead (Limited)	32
î	***	î	000	Cwm Bychan Silver-Lead (Limited)	62
	*29	5	***		436
-	***	2		There less Wheel Discovery Win (Timited)	
3	***		***		324.
					1
1	***	15s.	****	Ditto New	
-		0;	K	Gunnislake (Clitters)	134
10	***	9	***	Huntington Copper and Sulphur (Limited)	54s.
1	999		***	Islay Lead (Limited)	34
25s.	***	23s.		Kapunda Copper (Limited)	. 34
4	***	4		Panulcillo Copper Mining (Limited)	1
10	***	9		Rio Tinto (Limited)	8
10		10		Russian Copper Mining (Limited)	234
-		6		South Roskear	436
10	***	10		Tharsis Copper and Sulphur (Limited)	263%
10	***	7	***	Ditto New	1814
_	***	898.		West Maria and Fortescue	36
1	***	1	***	Yorke Peninsula Mining (Limited)	36
i	***	δs.	***	Ditto 15 per cent. Guaranteed Preference	34
•	***		***		
				GOLD, SILVER.	
5	***	5	***	Colorado Terrible Mining (Limited)	31/4
20		20		Emma Silver Mining (Limited)	11/4
10	***	10	***	Flagstaff Silver Mining (Limited)	3
9	***	2		Javali Gold Mine (Limited)	34
	***			Last Chance Silver Mining (Limited)	1
-	***	-		OIL.	
10					E 2/
10		1		Dalmeny Oil (Limited)	376
. 5	109			Midiothan Mineral Oil (Limited)	
10			0.00	Uphall Mineral Oil (Limited)	5
10	160	10	****	West Calder Oil (Limited)	734
10	100	83	5	Young's Paraffin Light and Mineral Oil (Limited)	61/8
				MISCELLANEOUS.	
20		10			101/
10	009	10		Conglog Slate and Slab (Limited)	1034
10	***	9		Highland Peat Fuel (Limited)	7
50		25	***	London & Glasgow Engineering & Iron Shipbuilding	22
1		1		North Cornwall Kaolin (Limited)	11%
20	400		5	Peruvian Nitrate (Limited)	
10		10		Scottish Wagon Company (Limited) Ditto New	13 1-16
10	***	- 1	***	Ditto New	22s.
		Last	day	for this account Dec. 24; settling day, Dec. 20.	

Last day for this account Dec. 24; settling day, Dec. 30, 2.—The above list of mines and auxiliary associations is as full as can be ned, Scotch companies only being inserted, or those in which Scotch in-are interested. In the event of any being omitted, and parties desiring a on for them and such information as can be ascertained from time to time serted in this list, they will be good enough to communicate the name of apany with any other particulars as full as possible.

J. GRANT MACLEAN, Stock and Share Broker. Post Office Buildings, Stirling, Dec. 23.

REPORT FROM MONMOUTH AND SOUTH WALES.

REPORT FROM MONMOUTH AND SOUTH WALES.

Dec. 24.—As the festive season is now so near at hand it is scarcely a time when things should be looked at in a gloomy manner, and for a while, at least, we will allow the future to take care of itself; nevertheless, it cannot be concealed that the commencement of the new year is anticipated with feelings of anxiety, and the question on nearly everyone's lips appears to be—"Will the reduction in wages be carried out?" Although vague rumours to the contrary have been industriously promulgated it is to be feared that it will; some of the coalowners, however, may not enforce the reduction immediately. Influences have been at work among the men endeavouring to show them that the masters do not really seek to enforce the reduction to meet requirements of the trade, but as a means to destroy the Union, and consider this a favourable opportunity for putting their scheme into operation. This charge cannot at least be laid to the irronmasters, for without a doubt the exigencies of their trade do require the wages rate to be as low as it possibly can, and by reducing the wages of the colliers the cost of fuel may be diminished. It is only in regard to the steam coal trade that such an argument can be admitted, if admitted at all, for in this branch of the trade the demand and prices have not varied to any material extent for some time reat, etill the meaters are not each tent for some time reat, etill the meaters are not each to such a such as a such as a such as the such as a such mand and prices have not varied to any material extent for some time past; still the masters are, no doubt, aiming at assimilation.

There has been but little business done in the iron market during the last week, and probably not many, if any, of the new contracts will be entered into for the next week or two, as much of the time will be taken up in stock-taking. The Ebbw Vale Steel, Iron, and Coal Company have lately booked some appreciable orders for steel rails on account of Canada. The tin-plate trade shows a downward tendency again, and makers seem disposed to resort to a reduction in wards.

THE MINING JOURNAL.

The dividend of the Messrs, Richards and Company (Limited) is at the rate of 10 per cent. The company owns extensive colleries, and in addition carry on one of the largest businesses as merchanisms in the kingdom, their sales amounting to something like 30,000 tonstinating the kingdom, their sales amounting to something like 30,000 tonstinating the kingdom, their sales amounting to something like 30,000 tonstinating the kingdom, their sales amounting to something like 30,000 tonstinating the like of the company pessed off in a silent sale to the largest like and the largest like like like like and the largest like like like like like like like l

Dec. 23.—The aspect of the Iron Trade in South Staffordshire has undergone little change since our report of last week either in the pig or finished department. There has been an increase of activity at the mills and forges during the past nine days, due to the anxiety to clear off as many outstanding orders as possible before the commencement of the holidays, and leading firms report that they are carrying forward a fair balance of specifications for sheets and some other cleases of iron into the proy courter. Nothing he put here carrying forward a fair balance of specifications for sheets and some other classes of iron into the new quarter. Nothing has yet been decided as to the course of prices, but an impression widely prevails that a reduction will be declared both in the price of best coal and in the standard for marked iron. Pending this decision buyers have for some little time past been withholding all but the more urgent orders. The selling quotations of the week include 9l. 5s. for common bars, and 12l. 10s. for common sheets (singles). Marked bars remain 10l. 10s. 11l. according to brond, with the venel procision extension. 10l. 10s. to 11l., according to brand, with the usual special extra for Earl Dudley's "round oak" make. The South Staffordshire Coal Trade has been stimulated this week

Earl Dudley's "round oak" make.

The South Staffordshire Coal Trade has been stimulated this week by the increased severity of the weather, which has caused a good demand to prevail for house fuel. Prices are also stronger, although there is no quotable alteration. Owing to the frozen state of the canals great difficulty is experienced in obtaining transit for the coals being raised, especially in the Cannock Chase district, where the railway facilities are not adequate to the requirements. Common coal for forge purposes is selling in South Staffordshire at 10s. per ton. There is no change in the price of best coal, but a reduction of 2s. per ton on Quarter-day is generally looked for.

This day's quotations on the Birmingham Stock Exchange include the following:—Sandwell Park Colliery (10l. paid), 38; Cannock and Huntington Colliery, ½ dis.; Chillington Iron, 6½; Ivy House and Northwood Colliery, ½ dis.; Patent Shaft and Axle (Limited), 5½ prem.; Staffordshire Wheel and Axle, 2½ prem.; Pelsall Coal and Iron, 2½ dis.; Patent Nut and Bolt (Limited), 5½ prem.; Oldbury Carriage, 8½; Gloucester Wagon, 15½; and Birmingham Wagon, 15½.

The ironworks in North Staffordshire, with the exception of a few of the plate-mills, have been in active operation during the last few days, owing to the anxiety of manufacturers to elear off as many orders as possible before the commencement of the holidays. Crown bars are selling at 9l. 10s. to 9l. 15s. per ton, but for the better classes of iron prices are irregular, and a good deal of underselling is going on. House coal is in steadier demand, and there is an increased consumption of fuel at the pottery works in the district, which compassates somewhat for the decrease in demand for forge purposes.

on. House coal is in steadier demand, and there is an increased consumption of fuel at the pottery works in the district, which compensates somewhat for the decrease in demand for forge purposes.

Mr. H. J. Harding (Birmingham) has called public attention to certain infractions of the law on the subject of testing chains and cables in the South Staffordshire district:

"My attention has been directed by some of the members of the Chamber to an infraction of the Chain-Cables and Ainchors Act, 1871, by manufacturers in this district. Chain-cables have been manufactured, tested by a private machine, and exported to various parts of the world, without having undergone the rigid test prescribed by the Act, and carried out under the supervision of the Board of Trade, at the two establishments in the district—Netherton and Tipton. The difference in the price is 41. per ton less when sold without the Government test mark. Will you permit me to direct the attention of the commercial public to the following extract from clause 7 of the law, which states, inter alia, every person selling, or contracting to sell, any chain-cable whatever, or any anchor exceeding in weight 188 bs. not previously tested and duly stamped according to the provisions of the Ast, renders himself liable to a penalty of 504. Clause 10 enacts that if any person uses a private testing machine, for which no licence is for the time being in force, he renders himself liable to a penalty not exceeding 1004. Considering that the safety of human life when on board ship, and the vessel itself, depends mainly in a time of danger upon the good quality of the chain cables and anchors, it is of the highest importance that the law should be complied with."

MASTERS AND SERVANTS ACT—PAYMENT OF MINERS AT PLAY.

An important case, arising out of and upsetting Mr. Rupert Kettle's recent award, was heard at the Hinchley Petty Sessions a few days since, the counsel for the defence remarking that the award would not bear a strict examination, and that the writer will be taken up in stock-taking. The Ebbw Vale Steel, Iron, and Coal Company have lately booked some appreciable orders for steel rails on account of Canada. The tin-plate trade shows a downward tendency again, and makers seem disposed to resort to a reduction in wages.

Coals, as already stated, are in fair demand, and up to the present the pits have been in full work. Christmas will, however, be duly observed by the colliers as in previous years, and from Thursday to Monday it is not likely that much work will be done. A series of accidents occurred at the Dowlais Collieries within the last week or two, which has thrown a large number of colliers out of employ, and caused the output to be considerably smaller.

About 500 men have also been thrown out of work at the Black Vein pit at Abercarn, Monmouth, in consequence of the means of ventilation having been condemned by Mr. It. Brough, the Government Inspector of Mines for the district. Mr. Brough ordered a fan to be used instead of furnaces. A deputation of men waited on the Inspector to a him to allow them to go on working with the usual time have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have appeared to him to have made a mischievous error, and to have complainant to have whilst the would not be have a strict examination, and that the would not be a preduction in the pit. On a revising 30s. for loss of wages, that on hug. I he went to his work at the usual time, having 40s. for loss of wages, that on hug. I he went to his work at the usual time, having 40s. for loss of wages, that on hug. I he went to his work at the writer, a miner, whic

REPORT FROM DERBYSHIRE AND YORKSHIRE.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Dec. 23.—During the last two or three days the ironworkers and miners have been working hard preparatory to the Christmas holidays, for in many instances but little more will be done during 1874. The iron trade of Derbyshire has been very fair indeed, and there have been but very few complaints for some time past as to men being short of work. So far as regards the blast-furnaces, they have been working with great regularity for a considerable time past, and as a revival of trade is looked forward to in the early part of the year, there is little doubt that even the present satisfactory state of things will not only continue but even improve. The leading foundries have been going on very well, the output of pipes and other castings having been large. At Dronfield the Bessemer Works have given notice to the men of a reduction in wages. This was no more what might have been expected after what has taken place at similar establishments at Sheffield, and a short distance from that town. The demand for house coal has been very brisk of late, more especially for the London market; and, taking advantage of the unusually severe state of the weather, the merchants have considerably advanced their prices to consumers, to an extent indeed beyond what is warranted by the price paid at the pits. The black shale is now much higher than it has been since the commencement of the year, although supplies must be far more plentiful than they were at that time, owing to the many new collieries that have since opened out to the coal. The leading centres, such as Clay Cross and Langley Mill, have maintained their position, whilst the Midland Company, by its superior arrangements with respect to the mineral traffic, shows to the greatest advantage amongst the railway companies having termini in London, and connected directly with our inland coal fields.

The Sheffield trades during the last week or ten days have been Dec. 23.—During the last two or three days the ironworkers and

coal fields.

The Sheffield trades during the last week or ten days have been less active than for some years previously at the same period of the year, and the "bulling" has been very moderate indeed. It has been usual for a week before Christmas for the men to work almost been usual for a week before Christmas for the men to work almost night and day, so as to clear work off, and to have an uninterrupted week for holidays, hence the term "bulling." Some branches have been unusually quiet, whilst the notice recently given to men engaged at the Bessemer establishments of a reduction of wages, and the discharge of others, shows that the trade is far from what it ought to be. The malleable works have been doing very well; and looking at the year all but ended, no doubt the business done has been satisfactory. We may say with regard to the Kelsham Works of Messrs. Crowley and Co. that the firm has enhanced its reputation, if such is possible, by the new specialities introduced in the shape of a patent lawn-mower, and also of a patent chaff-cutter, which practical men consider the most perfect yet brought under public notice, and by which all danger of accident to the person feeding is rendered impossible.

rendered impossible.

The Coal Trade of South Yorkshire is in a very satisfactory state The Coal Trade of South Yorkshire is in a very satisfactory state at the present time, so far as the demand is concerned, but, unfortunately, being in a great measure dependent on the Manchester and Sheffield Railway, the locomotive power of that company has been found unequal to the traffic, so that at times there is a complete block on the line; the consequence is that the trade at times is so paralysed that for want of wagons, and the non-removal of the full ones, the colliers have at times to play a day or two at a time.

THE MANCHESTER GEOLOGICAL SOCIETY.

The monthly meeting of this society was held on Tuesday, at the rooms of the Literary and Philosophical Society, George-street,—Mr. John Knowles presided.

FISH REMAINS FROM THE LOWER COAL MEASURES.

Mr. J. Aitken read some notes which he had prepared on fish remains from the lower coal measures of the neighbourhood of Burnley. The specimens consisted of the following:—1 and 2. Specimens of a new and undescribed species of ganoid fish of the genus pygopteris, found in the Arley Mine, near Holmes Chapel, Burnley. These were in a fine state of preservation, and exhibited the sculpturing on the head, tail, fins, and scales with much distinctness.—3. A tooth on the head, tail, fins, and scales with much distinctness.—3. A tooth of rhizodus 'Hibberti' (Agg.), from the blackband ironstone of the carboniferous limestone series, at Denhead, Fifeshire.—4. A palatal tooth (Psephodus magnus) from the Arley Mine, Burnley—very rare from the coal measures.—5 and 6. Fine examples of petalodus, obtained from the upper foot coal, Oldham, by Mr. James Dearden, believed to be the only specimen of this genus discovered in the coal measures.—7 and 8. Teeth from the coal field of Oldham—the former doubtfully referred to the genus Helodus.—9 and 10. Two palatal teeth from the same locality, and probably belonging to the genus Helodus, although characterised by a shape unusual in teeth of this

character. A brief discussion took place, and the thanks of the meeting were given to Mr. Aitken.

A paper, by Mr. James Spencer, "On the Geology of the Millstone Grits of the Parish of Halifax," was read, in the absence of the author, by Mr. Black one of the halfax," was read, in the absence of the author,

by Mr. Plant, one of the honorary secretaries.

A discussion followed, and a vote of thanks was passed to Mr. Spencer, the value of whose labour in his own locality was testified to by Mr. Aitken.

CRENVER AND WHEAL ABRAHAM UNITED MINES.

For several weeks the improving prospects of the Crenver and Wheal Abraham Mines have caused much greater interest to be taken in them than for some time past, and the carrying out of the proposition now under consideration for raising an additional 20,000. of working capital will, it is confidently believed, permanently relieve the concern from all financial difficulties, and secure it a good resition amongst dividend resymptomics. At the meeting on Dec 10. position amongst dividend-paying mines. At the meeting, on Dec. 10, the shareholders wisely gave the directors to understand that if it could be shown that the mines are on the eve of balancing costs and

position amongst dividend-paying mines. At the meeting, on Dec.10, the shareholders wisely gave the directors to understand that if it could be shown that the mines are on the eve of balancing costs and receipts with a prospect of coming at an early period on the permanent list, then they would do their part towards assisting to raise the funds now considered necessary and sufficient for that purpose. As the best and easiest way of showing the shareholders what are the prospects of the undertaking for the future, the Chairman has prepared a careful statement, in which he recommends the shareholders to look back to the past, and see how far the metals lately raised from the mines would have been able to meet costs, had it not been for expenses which may be legitimately and fairly charged to development and extraordinary expenditure, or, in other words, capital account. The last bi-monthly expenditure was 45964.11s, 6d., and the value of ore raised was 35114.15s, 6d., leaving a defleit for the two months of 10544.16s; but the agents believe that they will not only be able to maintain the present rate of output, but also to increase the receipts in the future both for copper and tin; but more particularly everything indicates a large increase of the tonnage of copper ore, and this may reasonably be inferred from the vast extent of ground laid open during the last 10 months, in which time they have sunk, risen, and driven more than 672 fathoms, a great part of which is through ground producing both tin and copper in paying quantities.

Probably no mine in the county has a better plant; it has cost, including engines, &c., about 40,000l. They have a 90-in., an 80-in., and a 70-in. cylinder pumping engine, each of the finest construction. About 320 hands are now employed, of whom 210 work underground, who are earning from 44.10s. to 54, per month. The bottom of the mine is 248 fathoms below the adit, the adit itself being 30 fathoms from the surface. Hitherto they have only been selling the ores once every other mont evidence that it is likely to prove of equal advantage to the share-

evidence that it is likely to prove of equal advantage to the shareholders themselves.

As soon as the mines are fairly developed the Chairman considers they might reduce their tutwork men by 65 in number, at a bimonthly reduction of at least 520%, and yet leave an exploring staff of 100 men and boys, which by experienced miners would be considered amply sufficient. The moneys expended during the last two months on calciner, dressing-floors, and various things therewith connected, all of which are heavy and exceptionable expenditure, amount to 498%. 18s. 4d. These two sums, added together and deducted from present costs, show a deficit of only 35%, 19s. 8d. for the two months' workings, and as we have to meet 13 pay-sheets yearly (of four weeks each), against six bi-monthly sales, it would leave at this rate a present excess of expenditure over income of about 2680% a year, to meet which an increased output of only 50 tons of copper ore per month would show a surplus, and this is far below our estimated returns of the average of the next 12 months, without taking into consideration any increase of tinstuff, which we are informed is inevitable; but to make the accounts show a profit, instead of a loss, it is absolutely necessary to pay off all existing lia-

taking into consideration any increase of tinstuff, which we are informed is inevitable; but to make the accounts show a profit, in stead of a loss, it is absolutely necessary to pay off all existing liabilities, and keep working capital in hand.

To provide the required new capital it is proposed to raise 20,000l., by the issue of 12½ per cent. mortgage debenture bonds of 50l. each, redeemable in three years, and it is confidently thought that if these debentures be subscribed there is every prospect, amounting almost to a certainty, that at the end of six months the mines will be more than self-supporting, and ready to yield a large return to the shareholders for all their money invested, preventing the possibility of their falling into the hands of those who are, doubtless, ready to at once reap the benefits of the large expenditure of more than 143,520l, incurred by the present company. It is the improvements which have been effected by this expenditure that are regarded as giving security to the debentures, and from the statement given of the items of expenditure it is evident that the amount is chiefly represented by work done, and not by excessive payments for purchase; thus the amount spent up to the present time has been—For purchase, 30,000l.; unwatering, 20,000l.; money for development, taken from capital, 50,000l.; money received from the sales of tin and copper, 43,520l. 14s.; total, 143,520l. 14s.; and it is estimated that the additional capital now to be raised will do more than put them into a paying state.

THE LATEST LONDON PURCHASE.—The Manta Mine, near Lincoln, Placer county, California, is one of the very few American mines which have lately been placed on the English market. The company owning the property is known as the Manta Mining Company (Limited), London. There is a live-stamp mill on the mine and five more stamps are being added by the English owners. They are also putting in a pump, hoisting work, &c. There is a shaft on the mine 240 ft. deep, and three levels have been run. The ledge is a gold-bearing one, about 2 feet wide. We are told that the ore is very similar in appearance to that of the Idaho and Eureka Mines, in Grass Valley, in both the characteristics of the vein stuff and the mode of occurrence, but not having seen it are unable to speak of our own know ledge. The vein at the bottom of the shaft is 4½ ft. wide, although it only shows? It in. at the surface. The rock is said to be very uniform is its pay value, and is expected to work about \$40 per ton. This mine was placed in the English market for the sum of \$50,000., and if it is worth anything at all ought to pay a decent dividend on the comparatively small capital stock. It is to be hoped that the mine will be made to pay, for our English friends have been bitten so badly of late that they deserve some recompense. California is in better repute there than most of the Pacific States and Territories, and if a few small mines were successful, it would lead the English public to invest largely here—Mining and Scientife Press, San Francisco, Dec. 5.

PREVENTION OF SMOKE, -The invention of Mr. George NIMMO PREVENTION OF SMORE.—Ine invention of Mr. George Almano, of Glasgow, consists in making the front part of the hearths of furnaces with an opening, or set of openings, up through from the underside or front part of the ashpit, and fitting the same with a hinged or siding door, or doors, for regulating the admission of air, and preferably with a counter-balancing weight or spring acting in the one direction to retain them where set, or shift them gradually close after being set open by a water or other regulator.

after being set open by a water or other regulator.

HOLLOWAY'S PILLS—HALE CONSTITUTION,—When the human frame has become debilitated from the effects of exposure, excesses, or neglect, these pills will repair the mischief if they be taken according to the lucid directions wrasped round each box. Holloway's pills exert the most exemplary tonic qualities in all cases of nervous depression, whereby the vital powers are weakened, and the circulation is rendered languid and unsteady. They improve the appetite, strengthen the digestion, regulate the liver, and sot as gentle aperients. These pills are suited to all ages, and all habits, and their inventor's fame has resounded through all the quarters of the globe; wherever sickness exists this medicine has made its way to be everywhere largely approved and justly appreciated.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

N the MATTER of the COMPANIES ACT, 1862, and of the

IN the MATTER of the COMPANIES ACT, 1862, and of the TERRAS TIN MINING COMPANY (LIMITED).—Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court was, on the 12th day of December isst., presented to the Vice-Warden of the Stannaries by David Wise Bain, of Portreath, within the said Stannaries, Coal Merchant, claiming to be a creditor of the ead company, and that the said petition is directed to be heard before the Vice Warden, at the Law Institution, Chancery-lane, in the City of London, on Tuesday, the 5th day of January next, at half-past Twelve o'clock in the afternoon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days notice to the petitioner, his solicitor, or his agents, of his intention to do so, such notice to be forthwith forwarded to P. P. Smith, Esq., Secretary of the Vice-Warden, Truro.

Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same from the petitioner, his solicitor, or his agents, within 24 hours after requiring the same, on payment of the regulated charge per folio. Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before the 2nd day of January next, and notice thereof must at the same time be given to the petitionen, his solicitors, or his agents.

HODGE, HOCKIN, AND MARRACK, Truro, Cornwall

next, and notice thereof must at the same time be given to the petitioner, his olicitors, or his agents.

HODGE, HOCKIN, AND MABRACK, Truro, Cornwall

(Agents for S. T. G. Downing, Redruth, Solicitor for the Petitioner).

Dated Truro, 16th December, 1874.

VALUABLE IRON, TIN, AND COPPER MINES IN WEST CORNWALL FOR SALE.

M.R. JOHN MATHEWS WILL SELL, BY AUCTION, at the Western Hotel, Penzance, on Thursday, the 31st day of December next, at Three o'clock in the afternoon, in One Lot, as a going concern, the WHOLE of the MACHINERY and MATERIALS, together with the SEVERAL MINING LEASES or SETTS of the TREBARVAH MINES, situate in the parish of Perranuthnoe, near Mazzion.

the MACHANEST of the TREBARYAH MINES, SIGNAGE IN THE PARTY OF STATES OF STATES OF THE TREBARYAH MINES, SIGNAGE IN THE MACHINERY comprises the following, namely:—48½ in. cylinder, 7 ft. stroke PUMPING ENGINE, with 12 ton BOLLER; 16 in. cylinder, 4 ft. stroke STEAM WHIM, with 8 ton BOLLER; cage and wire-rope complete; shears and capstan, with wire-rope; 50 fms. 14 in. pitwork, and 15 fms. 7 in. in engine-shaft, with 10 fms. 13 in. pumps at surface; skip-road in Richards' shaft, with stands, shieves, and shaft tackles at surface, together with a variety of miscellaneous articles. There is also an excellent account-house, together with smiths' shop and carpenters' shop, as well as material, powder, and dressing houses, with extensive copper ore floors.

opper ore floors. The whole of the machinery is in first rate condition, and ready to be set to work

at once.

The various levels from the adit to the 60 have been cleared, and 117 tons of copper ore, 1300 tons of white spathose iron ore, and 298 tons of tinstuff have been raised to surface and sold. There is a good lode of copper ore new standing above the 60, west of Richarla's shaft, and copper may also be expected in the 50 by driving a few fathoms further west of engine-shaft. There are several other valuable lodes known to exist in the sett.

Any further information may be obtained from Messrs. Branson and Son, Solicitors, Sheffield; Mr. S. H. F. Cox, St. Columb; of the Auctioneer; or at the offices of Mr. W. TRYHALL, Solicitor, Penzance.

Dated 16th November, 1874.

TO COPPER ORE AND OTHER MERCHANTS.

TO COPPER ORE AND OTHER MERCHANTS.

M. LEEDER has been instructed by the Executors of the late William Meager, deceased, TO SELL, BY PUBLIC AUCTION, on Thursday, the 7th day of January, 1875, at the Mackworth Arms Hotel, Windstreet, Swansea (subject to conditions which will be read at the time of sale), all that most VALUABLE LEASEHOLD PROPERTY, known as the

COBRE WHARF,

NORTH DOCKS, SWANSEA, together with NINE COTTAGES erected thereon, and held for an unexpired term of 99 years, and lives, from the 25th day of December, 1824, at a yearly rent of £30.

The property comprised in the lease has a depth of 385 ft., with a quay frontage to the North Dock of 120 ft., and with a frontage on the east side of 80 ft., with other great advantages.

A small portion of the yard, on which five of the cottages are erected, is subject

to the North Dook of 120 ft., and with a frontage on the east side of 80 ft., with other great advantages.

A small portion of the yard, on which five of the cottages are erected, is subject to a lease granted to Mrs. Sarah Meager, for a term of 90 years, from the 25th day of March, 1833, at the nominal rent of £4 per annum, and which property is now in the possession of the said executors, Mrs. 8. Meager having re let to the said W. Meager for 40 years, fro n the 25th day of March, 1841, at the yearly rental of £25.

The whole of the property is underlet to Messrs. Walter Shairp and Alexander Druce (subject to the before-mentioned leases), for an unexpired term of 4 years, from the 25th March, 1841, at the very low rent of £250. The premises are now in the occupation of Messrs. Richardson and Co.

Sale to take place at Three o'clock in the afternoon.

For further particulars, apply to Messrs. Brown and COLLINS, Solicitors, Worcester-place, Swansea; or to the Auctioneer, Oxford Chambers, Swansea.

FREEHOLD ESTATE AND HEMATITE IRON MINES, AT PARKSIDE,

FREEHOLD ESTATE AND HEMATITE IRON MINES, AT PARKSIDE, FRIZINGTON, CUMBERLAND.

TO BE SOLD, BY PUBLIC AUCTION, at the Albion Hotel, King-street, Whitehaven, in the county of Cumberland, on Wednesday, the 27th day of January, 1875, at Three o'clock in the afternoon, all the ancient enclosed portions of the FREEHOLD ESTATE called PARKSIDE, in the township of Frizington, in the parish of Arlecdon, in the county of Cumberland, containing 19A. 2R. 22P. or thereabouts, now in the occupation of Mr. George Graham, as farmer: together with the valuable MINES and ROYALTIES of HEMATITE IRON ORE and LIMESTONE within and under the same, being portions of the mines known as

THE PARKSIDE MINES,

now in the occupation of the Parkside Mining Company, under a lease thereof, which will expire on the 28th day of June next.

These well-known and productive mines have been successfully worked by the present lesses for 30 years and upwards, and are still producing large quantities of the best Cumberland hematite ore. The royalty is surrounded by some of the most valuable iron mines in the district, and has only been partially explored, and affords an excellent opportunity for the profitable investment of capital.

The allotments of common belonging to the estate adjoining the Frizington Road, and costaining 4.a. 3a. 4p., are not included in the present sale.

The farmer will show the land.

The property will be offered for absolute sale in the usual way, but if not sold will then be offered on a lease for 1000 years, subject to royalty rests of 2s. per ton for all innestone to be worked out of the estate.

The proporting the highest premium to be the lessee.

Conditions will be produced at the sale; and, in the meantime, further information may be had on application to Messrs. WILLIAM and ISAAC PORTER, Egremont; JOSEPH PORTER, Whitehaven; or at the offices of Messrs. LUND and HOWSON, Whitehaven, where a plan of the property may be seen, and copy of conditions had before the sale.

TO CAPITALISTS.

TO CAPITALISTS.

TO R SALE, —IN NEW SOUTH WALES, —
1340 ACRES TIN LANDS,—Lode and Stream.
2430 ACRES COPPER LANDS (portions freehold).
2112 ACRES IRON AND COAL.
2250 ACRES IRON AND COAL.
2300 ACRES COAL (inland, on railway line).
200 ACRES KEROSENE SHALE.
200 ACRES FLUMBAGO.
105 ACRES FREEHOLD GOLD DEPOSIT (Brown's Creek).

The above properties are all first-class, and on or near railway lines or water arriage, and are the very "pick" of their respective districts (being some of the lirst selections made).

Liberal terms, either as to purchase or working on royalty, will be given to arrive able to carry out arrangements.

Apply to the owner,—

CHARLES W. WEEKES, Circular Quay, Sydney, N.S.W.

CORNISH ENGINES.

ONE excellent 70 in. CORNISH PUMPING ENGINE, 10 ft. stroke, with metallic piston, with or without three boilers, 13 tons each, with fittings.

ONE good 72 in. CORNISH BEAM ENGINE, 10 ft. stroke, with inverted

yunder. ONE superior 50 in. CORNISH PUMPING ENGINE, 10 ft. stroke. ONE first-class 28 in. WINDING ENGINE, 5 ft. stroke, sultable for a colliery,

with drum.

ONE very good 20 in. horizontal WINDING ENGINE, 10 ft. stroke.

PUMPWORK of all sizes; CORNISH CRUSHERS; BOILERS from 6 to 12 tons; and a LARGE STOCK of MATERIALS in general use in mines.

Apply to F. W. MICHELL and Co., Mine Material Depôt, East Carn Brea, Reduch, Cornwall.

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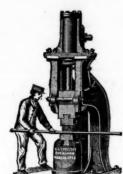
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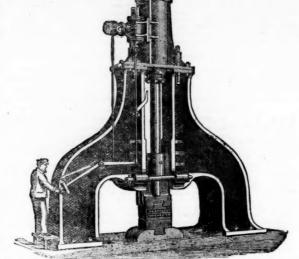
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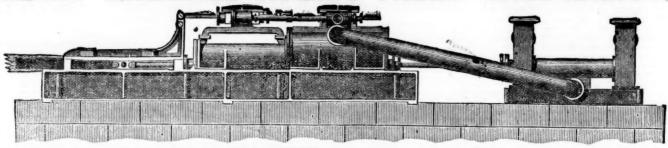




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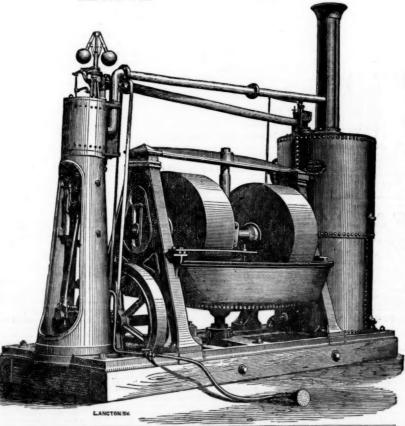
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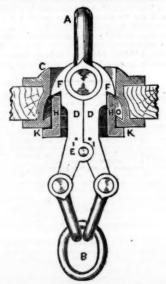
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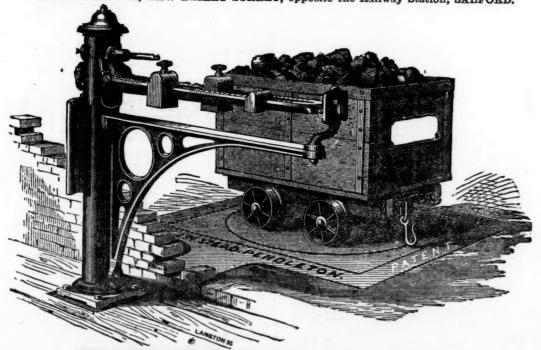
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The content of the			10000 Aberystwith, * s-l, Cardigan 12000 Assheton, l, Carnarvonshire*	5 0 0 1½1½ 1½	2000 West Wheal Lucy, t, c, Lelant
The content of the	30000 Bampfylde, c, i, mn., Devon* 1 0 5500 Blaen Caelan, s-l, Cardigan* (£4 sh.) 3 10 200 Botallack, t, c, St. Just	0 5½ 5 5½ 0 2 0 0 2 0 June 0 50 45 50 619 15 0 5 0 0 Ang	e 1873 12000 Bedford Consols, c, Tavistock 12000 Bedford United, c, Tavistock 12000 Bedford United, c, Tavistock 12000 Bedford United, c, Tavistock 12000 Bedford United 12	1 7 6 2 3 36 36 36 36	5000 Wheal Algar, c, Illogan
The content of the	10000 Bronfloyd, *† *-l, Cardigan	6 234 134 2 2 1 0 0 0 6Jan. 0 5 334 4 3 2 6 0 4 0Nov.	1872 5000 Blue Hills, t, c, St. Agnes	2 4 6 X 36	741 Wheal Basset and Grylls, t
The content of the	6400 Cashwell, l, Cumberland*	0 55 85 573 308 0 0 1 0 0Feb.	1873 20000 Brynambor, l, Cardigan	1 0 0 1 0 0 es 1 0 0	6000 Wheal Crebor, c, Tavistock
The content of the	2450 Ccok's Kitchen, t, Illogant	9 9 89 11 17 0 0 7 6 June 0 232 236 236 116 10 0 0 12 0 May	1873 20000 Burra Burra,* t,c, bl, Kenwyn 1873 5468 Bwadrain, s-l, Cardigan* (£4 share) 1872 4896 Bwlch Consols, s-l, Cardigan* (£5)	1 0 0 — b). 3 16 0 — sh.) 4 17 6 —	12000 Wheal Jewell, c, Maraxion 1 1 0 12000 Wh. Mary Hutchings, t, Plympton 1 11 0 1½ 4 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10 14 15 10
The content of the	6500 Drake Walls, t, c, Calstock	0 0 20 0 2 0 July 0 0 2 11. 0 0 8Feb.	1874 12000 Cae Gynon, <i>l</i> , Cardiganshire*† 30000 Caldbeck Fells, <i>l</i> , Cumberland*	2 0 0 — 2 0 0 —	10000 Wheal Ruby, t, Ludgvan 1 0 0 4568 Wheal Sparnon, t, Redruth 4 0 0
The content of the	300 East Darren, l, Cardiganshire 32 0 6400 East Pool, t, c, Illogan 0 9	6 1/4 7/4 1/4 14 19 0 0 2 0Oct, 0 224 10 0 1 0 0Oct, 9 13 13 14 13 11 3 0 2 6May	1872 5584 Carn Camborne, c, t, Camborne 1874 10000 Castle Gate, t, St. Colomb*	5 3 6 X X X	4096 Wheal Uny, t, c, Redruth 12 9 6 3½ 3½ 8¾ 834 12000 Wheal Vincent, t, Alternun 1110
The content of the	5000 Exmouth, s-l, Christow	6 9 11 20 7 6 0 7 6 Oct 0 1 0 May 0 9 15 0 0 10 0 Sept.	1874 3000 Cefn Brwyno (lim. to £5) 10000 Central Van,* l, bl, Llanidloes 10000 Central Van,* l, bl, l, bl	5 0 0 5 0 0	10000 Wye Valley, i, Montgomery* 3 0 0 3½ 3½ 3½ 1200 Zennor, i, Cornwall 5 0 0 10½ 10½
The content of the	15000 Great Laxey, l, Isle of Man* 4 0 (25000 Great West Van, l, Cardigan* 2 0 (0 11 10½ 11 17 \$ 0 0 6 0Oct. 0 34 35 56 0 2 0 0 1 0Aug.	1874 1874 1874 1874 15000 Cwm Bychan,* s.l., Montgomery). 2 0 0 36 36 36	Shares. Company.
The content of the	6400 Green Hurth, l, Durham*	0 ¾ ¾ ¼ 15 19 6 0 2 6 June 1 12 0 0 4 0 Oct. 1 0 2 6 June 1 12 0 0 1 4 0 Oct. 1 0 1 12 0 0 1 4 Dec. 1	1872 1874 1874 256 Cwmystwith, l, Cardiganshire!	* 2 11 0 = 60 0 0 =	# 15 Albion Steel and Wire Co. [L.] #10 0 0 103/ 103/ dis. 5 Alltami Colliery Co. [L.] 5 0 0 3/ dis. pa
The content of the	1024 Herodsfoot, I, near Liskeardt 8 10 0 18000 Hingston Downs, c.Calstock*† (£1sh.) 2 5 0	0 0 1 0 0 1 0 Nov. 1 0 444 62 5 0 0 15 0 Oct. 1	1874 15000 Deer Park, t,c, Tavistock	2 0 0 — 3 0 0 3 2 3	10 Bagnall, John, and Sons [L.] 10 0 0 3 2½ dis 10 Benhar Coal Co. [L.] 10 0 0 4½ 4½ pm 50 Bilipa Iron Co. [T.] 10 0 0 4½ 4½ pm
The content of the	25000 Killaloe, sl, Tipperary	0 3 11½ 0 0 6Mar. 1	1873 12000 Dolwen Consols, l, Cardigan* 1874 10000 Duchy Great Consols, c, Calstock 10000 Dunsley W. Phœnix, t, Linkin,*	1 0 0 — 3 0 0 —	10 Bilson & Crump Meadow Coll. Co.[L.] 10 0 0 1 1½ pm 25 Birmingham (Blakeley Hall) Coal 25 0 0
The content of the	11000 Melindur Valley, <i>l</i> , Cardigan* 3 0 0 9000 Minera Mining Co., <i>l</i> , Wrexham* 5 0 0 20000 Mining Co. of Ireland, <i>cl. c. l</i> * 7 0 0	3½ 3¾ 0 3 7 0 3 7 June 1 0 20 10 20 63 15 2 0 2 0 Nov. 1	1874 15000 Dyliffe, * l, Montgomeryshire 1874 512 East Basset, c, Redruth†	6 0 0 —	Ditto 10 p. ct. bonds of £25 each 2 2½ pm 4 Blaen Cwmbach Coal Co. [L.] 4 0 0 ½ 1 pm 50 Blaenavon Fron and Steel Co. [T.] 2 1 pm
Section 1.5	12000 North Hendre, l, Wales	6½ 6 6½ 0 17 6 0 2 6Oct. 1	1874 3000 East Boscaswell, t, St. Just	5 0 0 — n 3 0 0 —	50 Blochairn Iron Co. [L.]
Section 1.	5000 Old Treburgett,* s-i (10 per ct. pref.) 0 10 0 5694 Pedn-an-drea, t, Redruth 5 9 2 0	76 0 0 9 0 0 9 Feb. 1 0 0 10½ 0 0 10½ Feb. 1 0 0 10½ 0 0 10½ Feb. 1 0 5 0 0 5 0 Nov. 1	1874 3000 East Chiverton, t, Perranzabilice 1874 3000 East Dolcoath, t, Illogan	10 0 0 7 2 6 56 36 56	50 Bowling Iron Co. [L.] 50 0 0 25 30 pm. 5 Brynkinalt Collieries [L.] 5 0 0 25 30 pm.
Section 1.	6000 Penstruthal, t, c, Gwennap. 2 0 0 6000 Phenix, t, c, Linkinhorne 4 13 4	1½ 1½ 1½ 8 7 0 0 2 0 Oct. 1 ½ ½ 0 2 0 0 1 0 Nov. 1 8 19 19 10 0 4 0 Nov. 1	1874 50000 East Gunnisiake and So. Bedford, c 1874 50000 East Llangynog, l, Montgomery* 30000 E. Nant-y-mwyn,* l, Brecknockshir	13 13 0 — 2 0 0 — e. 1 0 0 —	50 Brown, Bailey, and Dixon [L.] 40 00 25 24 dis. 100 Brown, John, and Co. [L.] 70 00 8 8½ pm
Section 1.	18000 Prince Patrick,* s-l, Holywell 1 0 0 1120 Providence, t, Lelantis 16 16 7	3 2½ 2½ 0 9 0 0 2 0Jan. 1 5 4 4½ 104 12 6 0 10 0Sept. 1	1872 15000 East Van, t, Llanidloes*	. 8 0 0 1 3/ 1 1 0 0 . 0 10 6	20 Cannock and Huntingdon Coal [L.] 20 00 6½ 6 dis 10 Cardiff & Swansea St. Coal Co. [L.] 4 0 0 ½ dis. par
FOREIGN DIVIDED MINES	2000 Roman Gravels, l, Salop* 7 10 0 0000 Shelton, cl, t, St. Austell 1 0 0	13½ 12 12½ 0 2 0 0 2 0 Sept. 1: 0 1 0 0 8 6 Dec. 1: 0 1 0 0 1 0 Feb. 1:	1874 5000 Flintshire,* l	6 0 0	10 Central Swedish Iron and Steel [L.]. 10 0 0 6% 6% die. 5 Chapel House Colliery
FOREIGN DIVIDED MINES	8000 South Caradon, c, St. Cleer	140 110 120 717 0 0 2 0 0Oct. 1 136 1 136 0 10 0 0 2 6July 10	1874 5000 Frank Mills, l, Christow	. 4 16 0 56 36 36 36 36 36 36 36 36 36 36 36 36 36	50 Chatterley Iron Co. [L.] 35 0 0 19½ 19 dis. 10 Chillington Iron Co. [L.] 40 0 0 12 111 dis. 1 Che III Che I
FOREIGN DIVIDED MINES	0000 Bo. Pr. Patrick,* s-l.(8000 sh. issued) 1 0 0 8771 Bt. Just Amalgamated, t*	2½ 2 2½ 0 2 0 0 2 0 Oct. 11	1874 3950 Gawton, c, Tavistock 5000 Gern, t, Whitchurch	3 15 0 36 36	A Clee Hill Colliery Co. [L.] 1 0 0 36 34 dis. 10 Consett Iron Co. [L.] 7 10 0 15% 15% pm. 1 Consett Spanish Ore [L.] 1 0 0 37 46 dis. 10 0 38 46 dis.
FOREIGN DIVIDED MINES	6000 Tincroft, c, t, Pool, Illogan† 9 0 0 5000 Tretoil, t, i, Bodmin 2 0 0 4000 Trumpet Consols, t, Helston	28 29 30 47 12 6 0 5 0Nov. 18	1874 10000 Glan Severn, s-l, Flintshire	1 0 0 1 0 0 1 0 0 156136 156	50 Cooke, William, and Co. [L.] 20 0 0 0 6½ 5½ dis. 20 Davis's Merthyr Colliery Co. [L.] 8 0 0 2 1½ dis. 50 Davis's Merthyr Colliery Co. [L.] 10 0 0 2 1½ dis.
FOREIGN DIVIDED MINES	5000 Van, I, Llanidloes* 4 5 0 8000 W. Chiverton, I, Perranzabuloef 10 10 0	22 20 22½ 13 9 6 0 10 0Nov. 18 2 1½ 2 82 10 0 0 \$ 0June 18	12000 Goginan, and Level Newydd, Card., 1874 7500 Gorsedd and Celyn Level, l, Flint 1878 10000 Great Mountain, s-l, Carnaryon*	1 5 0 — 2 0 0 1½ 1 1½ 1 0 0 —	Davy Brothers [L.] 22 10 0. 14½ 15 pm, 28 Ebbw Vale Co. [L.] 29 0 0. 8 7 dil. 6 Fairbairn Engineering 5 0 0. 24 14.
FOREIGN DIVIDED MINES	1048 West Wheal Frances, t, Illogan 27 3 9 512 Wheal Basset, c, Illogan 5 2 6	9 8½ 9½ 8 10 0 1 8 0 Dec. 18 22½ 20 22½ 638 10 0 1 10 0 Aug. 18	 2000 Great Retallack, s-l, b, Perranzabuloe 4400 Gt. West Chiverton, s-l (8000 shares) 4096 Great Wh. Lovell, t, Wendron 	3 8 0 — 2 10 0 — 8 4 0 —	veneral Mining Ass. [L.] (£1 returned) 9 0 0 8 10 10 Glasgow Port Washington [L.] 6 0 0 3¼ 3½ dis.
FOREIGN DIVIDED MINES	296 Wheal Kitty, *, 8t. Agnes	5 4½ 5 11 0 0 1 0 0Dec. 18 11 19 6 0 2 6Dec. 18 82 2 3 0 10 0May 18	1874 18000 Grosvenor,* l, Halkin 1874 12000 Islay, l, Scotland*	1 0 0	6 Gwyngwillim Colliery Co. [L.] 2 0 0 10 Hendreforgan Colliery Co. [L.] 5 0 0 15 Hopkins, Gilkes, and Co. [L.] 10 0 0 3 21/41-
FOREIGN DIVIDED MINES	0000 Wheal Prussia, t, Redruth 2000 Wheal Russell, c, Tavistock 1000	4½ 3 8½ 0 1 0 0 1 0 Dec. 18	1872 8000 Killifreth, t, Chacewater	1 2 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	10 Ifton Rhyn Colliery Co. [L.]
American, S. Berry, C. Company, C. Company	00 Wicklow, e, sul, i, Wicklow 2 10 0	0 1 6 0 0 6 May 18 52 9 0 0 2 6 Mar. 18	873 2500 Levant, c, t, 8t. Just	8 10 0 2 0 0	2 Zittledenn Woodside Coll. Co. [12.] b 0 0
Comparison Com	500 Alamillos, l, Spain*†	2 1½ 2 1 5 9 0 2 0 Sept. 18 ½ 5 ½ 0 4 3 0 1 0 May 18	874 14000 Llanidloes, I, Montgomery 87000 Llanrwst, I, Carnaryon 17000 Llanrwst, I, Carnaryon 17000 Llanrwst, I, Carnaryon 17000 Llanrwst, I, Carnaryon 17000 Llanrwst, III (17000 Llanrwst, III (1700	8 0 0 3½ 3¼ 4 2 0 0 2½2¼ 2½	oo Llynvi, Ogmore, & Tondu Co. [L.] 46 0 0 13 12 dis, 13 Llynvi Valley Col. Co. [L.] 15 p.o. pref. 10 0 0 10 Lydney and Wigpool Iron Ore [L.] 7 5 0 24 14 dis,
Application Company	000 Battle Mountain, * c, (6240 part pd.) 5 0 0 000 Birdseye Creek, g, California* 4 0 0 000 Bensherg I. Germany*	256 236 256 0 11 6 0 2 0July 18 0 10 0 0 10 0Nov. 18 0 14 0 0 2 6June 18	874 6000 Medlyn Moor, t Wendron	4 18 6 1% 1% 1% 0 12 10. —	10 Marbella Iron Ore Co. [L.] 10 0 0 6 5 4 dis. 10 Merry and Cuninghame [L.] 3 10 0 4 dis. 4 pm. 6 Mersey Steel and Iron Co. [L.] 5 0 0
Application Company	320 Burra Burra,* c, So. Australia 5 0 0 000 Cape Copper Mining,*† So. Africa 7 0 0	80¼30¼ 30¼ 18 15 0 1 0 0Dec. 18	of o decimination, thayle	4 0 0 1 0 0 9 14 0 % % %	b Mold Argoed Colliery Co. [L.] 5 0 0 par 14 pm. 10 Monkland Iron and Coal Co. [L.] 5 0 0 63 6 dir. 10 Midland Iron Co. [L.] 5 0 0 53 6 dir.
Septender, L. Linker, S. 1995,	000 Central American Association*† 0 16 6 000 Chicago, s, Utah* 10 0 0	0 6 0 0 2 6June 18: 0 6 0 0 1 0July 18: 0 16 0 0 4 0Sept. 18:	873 4000 Nanty, l, Montgomeryshire*	1 0 0 — 5 0 0 — 1 0 0 —	4 Mwyndy Iron Ore [L.]
Septender, L. Linker, S. 1995,	162 Don Pedro North del Rey*†	34 37 56 0 9 6 0 1 6July 187 534 434 5 1 0 0 1 0 0July 187	874 20000 New Consols, c, Tavistock*	8 0 0 8 2½ 3 8 0 0 1½ 1 1½	1 Nerbudda Coal and Iron 0 8 0 4 4 4 4 20 New Shariston Collieries [L.] Pref. 18 0 0 10 9 dir.
Septender, L. Linker, S. 1995,	000 Emma, g, s, Utah (25,000 fully pd.) 20 0 0 000 English and Australian, cf S. Aust. 2 10 0	136 136 136 3 12 0 0 15 0 June 187 2 136 2 3 12 0 0 6 0 Dec. 187 2 136 2 3 7 3 0 3 6 Mar. 187	872 6000 New Hobb's Hill, t, Liskeard*	2 1 0 1 3/ 1 2 0 0 2 1½ 2 5 4 6 7/ 3/ 2/	10 Northfield Iron Co. (L.)
Segment Mining Co., Automatic 1 1 1 1 1 1 1 1 1 1	000 Ferguson, g, California*	2 1½ 2 4 2 0 0 3 0 April 187		4 12 0 34 34 34 5 0 0 —	100 Parkgate Iron Co. [L.] 65 0 0 2314 2414 pm. 20 Patent Shaft and Axletree [L.] 10 0 0 534 6 pm. 20 Pelsall Coal and Iron [1.] 50 0 pm.
Section Assertion Mining Co-11. 1 0 0 154. 154 15 16 per cent. Nov. 157. 159. 159. 159. 159. 159. 159. 159. 159	000 Gold Run, hyd	0 2 4 0 0 4Oct. 187	5000 New St. Blazey, *t, Cornwall	0 17 6 8 10 0 1½ 1 1½	60 Phoenix Bessemer Co. [L.] 40 0 0 16 15½ dis. 50 Rhondda Merthyr Coa Co. [L.] 50 0 0 20 25 pm.
Section Assertion Mining Co-11. 1 0 0 154. 154 15 16 per cent. Nov. 157. 159. 159. 159. 159. 159. 159. 159. 159	000 Linares, I, Spain*†	4½ 8½ 4½ 14 14 2 0 3 4 Sept. 187 1½ ½ 1½ 1 11 6 0 1 6 Mar. 187	1200 New Wh. Seton, c, Camborne	86 16 8 % . ½ % 2 0 0 –	10 Richards and Company [L.]
Section Assertion Mining Co-11. 1 0 0 154. 154 15 16 per cent. Nov. 157. 159. 159. 159. 159. 159. 159. 159. 159	000 Mountain Chief, s, Utah*	0 4 0 0 4 0Jan. 187 6 0 0 3 0 0July 187	2000 North Wheal Towan, t, c, Illogan 10000 North Pool, c, Illogan*(Reserve 2500)	1 19 6	50 Ditto B. 10 0 0 — 50 Shotts Iron Co. [L.]
Selected Ballets, p. Californian 1	000 Port Phillip, g, Clunes*†	1 ½ 1 1 8 0 0 1 0Jan. 187 7 6½ 6½ 3 1 6 0 5 0Dec. 187	172 8000 North Treleigh Wood, t. Redruth*	1 0 0 1 ¾ 1 3 12 10 —	10 Sheffield Forge and Rolling Mill (L.) 2 10 0 3 29 pm. 50 Silkstone & Dodworth Cl. & Iron[L.] 22 0 0 3 dis. par 5 Silkstone Fall College Co. [L.]
Figure F	500 Sierra Buttes, g, California*† 2 0 0 000 South Aurora, s, Nevada* 5 0 0	154 15 per cent Nov. 187 134 1 8 0 0 9 0 Dec. 187 18 0 14 2 0 2 0 Nov. 187	2000 Old Batholes, *	1 10 0 2 0 0 2¾2¼ 2¾ 4 0 0 4¼ 4 4¼	20 8kerne Ironworks [L.]
Figure F	000 Sweetland Creek, g, California*† 4 0 0 000 Tolima, g, s* (6000 sh. are £5 f. pd.) 4 0 0	2½ 2½ 2½ 3 0 0 0 2 0Dec. 187 3½ 3 3½ 0 11 6 0 6 6May 187		5 0 0 5½ 4¾ 5¼ 3 0 0 ¾ ¾ ¾ 16 15 0 —	100 Staveley Iron and Coal Co. [L.]
Marchan Marc	09 Western Andes, s* (New Granada). \$ 00 NON-DIVIDEND	5½ 55½ 1 18 4 0 10 0Oct. 187.	73 12000 Pennerley, l, Shropshire*	2 0 0 156136 136 1 0 0 36 36 36 2 5 0 36 36 36	20 South Cleveland Ironworks [L.] 30 0 0 12 10 dis. 10 Swansea Valley Steam Coll. Co. [L.]. 6 0 0 12 10 Under Iron Company
## Street	es. Mines. O Anglo-Australian, g, Victoria* O Australian United, g, Victoria*t	Paid, Last Pr. Cles. Pr. Last Call. 2 10 0 Sept. 187	1. 2000 Prince of Wales, c, Calstock	0 12 6 — 8 0 0 — 1 5 6 58 36 34	7½ Titanic Iron and Steel
Second Aydraula Gold Washing Co., California* 0 0 0	00 Bellavista, s, Peru* (£10 shares)		d. 15000 Rookhope Valley, l, Durham*d. 5869 Rosewall Hill and Ransom, td. 6000 Rosewarne United, c, t, Gwines	4 0 0 ¼ ¼ ¾ 4 5 0 ¾ ¼ ¾	10 Vancouver Coal [L.] 6 0 0 34 134 pm. 100 Vickers, Sons, and Co. [L.] 100 0 0 35 45 pm.
8 Resident Arystraulis Good Washing Co., California* 0 0	00 Camp Floyd, s, Utah* 00 Cesena Sulphur Company, Romanga, Italy* 05 Chontales, g, s, Nicaragua*t (and 12 542 of 21 1		d. 6123 South Condurrow, t, c, Camborne]	0 6 0 6 5 6 5 434 5	25 W. Cumberland I. and Steel [L.] 20 0 0 6½ 5½ dis. 10 West Mostyn Coal [L.] (12 p.c. pref.) 2 0 0 ½ 5½ dis. 3½ pm
Second Aydraula Gold Washing Co., California* 0 0 0	o Clifton, s, Colorado*	10 0 0 78 % Fully pd Feb. 1872 Fully pd	d. 5000 South Great Work, f, St. Hilary 12000 South Kit Hill, t, Callington*	2 14 0 —	10 Wigan and Whiston Coal Co. [L.] 10 0 0 — 100 Wigan and Whiston Coal Co. [L.] 70 0 0 — 100 Wigan Coal and Iron Co. L. 70 0 0
Gestal Punnet Co., Georgelown, Col. 7 0 0 1	Exchemer, g. s. California *	rnia* 6 0 0 Dec. 1871	d. 12000 South Margaret, t, Ludgvan	1 0 0	WAGON COMPANIES.
0 Mailabar, 9, Colombia* (6500) issued) 1 0 0	0 Frontino and Bolivia, g, New Granada*† 0 General Brazilian, g*	2 0 0 34 34 36Fully pd	d. 6000 South Roskear, t, c, Camborne d. 6000 South Tolcarne, t, c, Camborne d. 12000 South Year */ Months	8 0 0 8 4 5 0 18 0 36 36 36	10 Gloucester Wagon Co. [L.]
0 Maisbars, 9, Colombia* (65000 issued) 1 0 0	0 Holcombe Valley, g, California	1 0 0 1½ ½ 1½ Fully pd.	d. 3000 South Ward, l, Bengomeryshire 33 937 South Wheal Crofty, c, Illogan	3 0 0 1¼ 1 1¼ 4 10 10 . 15 14 16	10 metropolitan Wagon Co. [L.]
0 Mailabar, 9, Colombia* (6500) issued) 1 0 0	0 Independence, g, California* 0 I. X. L., g, s, California*	5 0 0 Fully pd.	d. 6000 South Wheal Kitty, t, St. Agnes 4. 4000 St. Agnes Consols, t*	0 5 0 51/4 6	rv north of England Wagon Co. [L.]
Malpas, s, pairs Malpas, s, Colombia* (1000s pref. shares, 16s. paid) 1. 0. 0	0 Lanestosa,* l, z, Viscaya, Spain (£2 shares) 0 London and California, g*†	1 12 6 1 16 18 Fully pd Sept. 1874	d. 10000 St. David's, * s-l, Holywell 14 940 St. Ives Consols, t, St. Ives	1 6 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TELEGRAPH COMPANIES
0 Santa Bardero, c, Chilis of Santa Bardero, c, Chilis of Santa Bardero, c, Chilis of Santa Bardera, s, Brazil (16000 new 10s. sh.,2s. 6d. pd.). 0 9 6	Malaga, i, Spain* Malpaso, g, Colombia* (10000 pref. shares, 15s. Menyenberg	paid) 1 0 0 1 1 1 Fully pd.	d. 6000 Success, &c., l, Derb. (12,000l. called).	1 0 0 % 1	
0 Santa Berdro, c, Chill* 0 Santa Barbara, *g, Brazil (16000 new 10s. sh., 3s. 6d. pd.). 0 Santa Barbara, *g, Brazil (16000 new 10s. sh., 3s. 6d. pd.). 0 Silver Plume, s, Colorado* 0 Showdrift, s, Col	o Montague & Waverley Gold Quartz Crushing Co. O Monte Loreto, g, c, Italy*	"N.Scot. 9 0 0 Fully pd Fully pd Allotment	1. 18400 Teisrdale, * l, Durham	5 0 3 % %	10 Eastern, 6 per cent. debentures 10 0 0 734 8 10 East. Exten., Australia and China 10 0 0 734 8 10 Ditto, 6 per cent. preference
0 Santa Bredro, c, Chill* 0 Santa Barbara, s, Brazil (16000 new 10s. sb.,2s. 6d. pd.) 0 9 6	New Quebrada, c, Venezuela* New Rosario, s, Mexico* New Zealand Kernetico*	8 0 0 3½ 3½ Dec. 1874 1 0 0 3½ 8½ s Fully pd.	5000 Treleigh Wood, t, Redruth	13 0 5 236 8	10 Great Northern 10 0 0 10 10 10 12 12 12 13 14 15 16 16 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18
00 Santa Berdro, c, Chill* 00 Santa Barbara, 2, Brazil (10000 new 10s. sb.,2s. 6d. pd.) 0 d.	0 Newtondland, * i 0 North American, g*	10 00 2 111/2 Fully pd	1. 12000 Trestellan, *-, Crantock*	0 0 % % % 1 0 0 —	8 Reuters 8 0 0 11 115 t. Submarine 100 0 0 306 211 10 West India and Panama
0 Santa Berdro, c, Chill* 0 Santa Barbara, *g, Brazil (16000 new 10s. sh., 3s. 6d. pd.). 0 Santa Barbara, *g, Brazil (16000 new 10s. sh., 3s. 6d. pd.). 0 Silver Plume, s, Colorado* 0 Showdrift, s, Col	0 Pestarena United, g, Italy*† 0 Riea, g, Colombia* (40000 issued)	3 0 0 134 36 136Fully pdFully pdFull	1. 200 Tucker's Downs, Camborne	10 0 2¾2½ 2¾ 0 0 0 0 1½ 1½ 1¾	20 Western and Brazilian
0 Sant Barce, c, Chili* 0 Santa Barce, c, Statistic Santa	O Rossa Grande, g. Brazil* (£1 shares) O Ruby Consolidated, s. Nevada*	0 19 0 8½ 7½ 8½ Jan, 1874 10 0 0 34 34 ½ July 1872	2 20000 Van Consols, l, Llanidloes*	0 0	MINORIA CANTONIO
0 Troma, s, Utah* 10 0 0 Fully pd. 12000 West Goginan, Cardiganshire 2 0 0 1/2	0 San Pedro, c, Chili* 0 Santa Barbara, e, Brazil (19000 new 10s. sh. ch.	0 0 0	1. 20000 Victoria, t, Perranzabuloe	0 0	25 Uopper Miners of Eng. (7 p. c. pief.) 25 0 0 91 101 101 101 101 101 101 101 101 101
A United Mexican, s, Mexican's 1 0 0 1/2 1 1/2 1/2	0 Snowdrift, s, Colorado* 10 Snowdrift, s, Colorado* 10 St. Lawrence, g, * California	1 00 76 % Mar. 1872 Fully pd Fully pd Fully pd.	100 West Condurrow, t,c, Camborne 12000 W. Esgair Lle, l, Card.*	0 0 0 0 2½ 2 2½ 10 6 1½ 1 1½	1 Graissance winnstone quarry
00 Yorke Peninsula, c. South Australia	00 Te oma, s, Utah* 00 Thornhill Reef, g, Australia* 14 United Mexican, s, Mexico***		1 12000 West Goginan, *Cardiganshire	0 0 1¼ ¼ ¼ b	blende; cl, coal; c, copper; g, gold; l, lad; s, silver; si, slate:
5000 West Pinents, t, Linkinhorne	0 Utah, g, s-l, Utah* 80 Victoria (London)*, g, Australia (25,000 sh. 16s. 00 Yorke Peninsula, c, South Australia	. pd.) 1 0 0	1 12000 West Pant-y-Go, s-l, Flint*	0 0	Limited Liability Companies : 7, tin: 2, zinc. Limited Liability Companies : 7 quoted on the Stock Exchange. I have paid dividends.
BERREY, E.O., where all communications are requested to be addressed.—December 26, 1 4.	vo Xorke Peninsula, c, South Australia Preference j Have made calls since	last dividend was paids	1403 West Phoenix, t, Linkinhorne	18 0 — 8 0 —	
			12000 West Tankerville, I, Salop*	0 0 H H H	organity, n.U., where all communications are requested to be addressed.—December 26, 1